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Illinois
Environmental
Protection Agency

Division of Public Water Supplies
2200 Churchill Road
Springfield, Illinois 62706

26918355

Groundwater Quality Protection Program

ST. CHARLES
FACILITY NUMBER 0894830
WELL SITE SURVEY
REPORT

Division of Public Water Supplies

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GROUNDWATER QUALITY PROTECTION PROGRAM:

ST. CHARLES
FACILITY NUMBER 0894830
WELL SITE SURVEY
REPORT

Prepared by:

Division of Public Water Supplies

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INTRODUCTION

This report has been prepared by the Agency pursuant to Section 17.1 of the Illinois Environmental Protection Act. The report summarizes information about your facility, and samples collected and analyzed from your well(s). The well site survey provides an inventory of the area around your well(s) to help increase your awareness of potential hazards to groundwater utilized by your facility. This information and technical data will assist you in developing and implementing local groundwater protection measures authorized by the Act.

FACILITY DESCRIPTION AND GEOLOGIC PROFILE OF WELL SITES

The Village of St. Charles has seven public water supply wells. The facility produces 3,538,000 gallons per day on average to an estimated population of 22,500. See Table I for a description of each well. Wells No. 3, No. 4, No. 5 and No. 8 utilize deep bedrock aquifers overlain by glacial deposits, variable in thickness and composition. Wells No. 7, No. 9, and No. 11 utilize sand and gravel aquifers overlain by relatively impermeable till. Permeability is a measure of the ability of a soil or sediment to transmit fluids. A detailed description and geologic profile is found in the Facility Wells Report (Appendix C).

TABLE I

	Min. Set-Back (ft.)	Max. Set-Back (ft.)	Status	Cap. (gpm) (MGD)	Spec. Cap. (gpm/ ft)	Treat-ment	Aquifer	Well Depth (ft)	Well Log Avail
Well No. 3 (20099)	400		A	700 1.008	N/A	Cl, Phosp	Deep Bedrock	1191	
Well No. 4 (20100)	400		A	430 0.619	N/A	Cl, Phosp	Deep Bedrock	1647	
Well No. 5 (20101)	200		A	999 1.440	N/A	Cl, Phosp	Deep Bedrock	1713	
Well No. 7 (20103)	200		A	1797 2.590	N/A	Cl,Fl	Sand & Gravel	172	
Well No. 8 (20104)	400		A	1249 1.800	N/A	Cl	Deep Bedrock	1373	
Well No. 9 (20105)	400		A	1349 1.944	N/A	Cl,Fl	Sand & Gravel	86	
Well No. 11 (00392)	400		A	1899 2.736	N/A	Cl,Fl	Sand & Gravel	129	

A = Active, I = Inactive, SB = Standby

GROUNDWATER SAMPLING AND MONITORING HISTORY

The public water supply wells at St. Charles were sampled as part of the Statewide Groundwater Monitoring Network on September 26, 1986. The samples were analyzed for volatile organic and aromatic chemicals (VOC/VOA) and inorganic chemicals (IOC). The VOC/VOA analyses performed detected no quantifiable levels of organic chemicals in the wells. The IOC analyses performed found the water from the wells to meet all general use guidelines except Well No. 7 which had an elevated level of iron, which is not uncommon for similar wells in the area.

WELL SITE SURVEY METHODS AND PROCEDURES

The detailed well site survey consists of an aerial photographic map and inventory sheets, (Appendix B), that relate information about potential sources, routes, and possible problem sites to your water supply wells. The location of potential sources, routes, possible problem sites, water wells minimum setback zones and the 1,500 foot survey area are all displayed on the aerial photographic map.

The first page of each survey consists of a summary description and geologic profile for each well. The second and following pages of the survey inventory units within and bordering a 1,500 foot radius of the wellhead. A unit is defined as "any device, mechanism, equipment, or area (exclusive of land utilized only for agricultural production)". The Agency 5-digit well number is associated with unit or map code, and then classified. The classification codes relate to definitions of potential contamination sources and routes as defined in the Illinois Groundwater Protection Act (see Groundwater Primer pages 18-19). The distance and direction of the unit from the wellhead is also indicated.

SURVEY RESULTS AND FINDINGS

The well site survey of St. Charles was conducted on March 19, 1992 by Laurie Moyer, Environmental Protection Specialist from the Agency's Rockford Regional Office. The following describes the results and findings for St. Charles.

St. Charles Well No. 3 (IEPA #20099) - The survey area is urban consisting partly of moderate density residential housing and mostly of commercial businesses. The well is located east of the Fox River near City Hall. There is one visible potential source, route or possible problem site located within the minimum setback zone (400 feet). This site is the City of St. Charles - Fire Department (Map Code 1) located 25 feet east of the well. There are no possible problem sites outside the minimum setback zone, but within the survey area (1500 feet).

St. Charles Well No. 4 (IEPA #20100) - The survey area is urban consisting partly of moderate density residential housing and mostly of commercial businesses. The well is located east of the Fox River north of Well No. 3. There are no visible potential sources, routes or possible problem sites located within the minimum setback zone (400 feet). One possible problem site is located outside the minimum setback zone, but within the survey area (1500 feet). This site is the City of St. Charles - Fire Department (Map Code 1) located 725 feet south of the well.

St. Charles Well No. 5 (IEPA #20101) - The survey area is urban consisting entirely of moderate density residential housing. The well is located on the corner of 3rd and Bowman. There are no visible potential sources, routes or possible problem sites located either within the minimum setback zone (400 feet) or within the survey area (1500 feet).

St. Charles Well No. 7 (IEPA #20103) - The survey area is urban consisting entirely of commercial businesses. The well is located on Randall Road just north of Main Street. There are two visible potential sources, routes or possible problem sites located within the minimum setback zone (200 feet). These sites are Shepherd Truck Services, Inc. (Map Code 2) located 180 feet west of the well, and Edward Hines Lumber Company (Map Code 8) located 150 feet east of the well. Eight possible problem sites are located outside the minimum setback zone, but within the survey area (1500 feet). These sites are Payline West - Ford (Map Code 1) located 500 feet northwest of the well, Citgo Quik Mart (Map Code 3) located 450 feet southwest of the well, Amoco (Map Code 4) located 450 feet south of the well, Fox River Tire and Supply, Inc. (Map Code 5) located 225 feet south of the well, Seigle's Lumber (Map Code 6) located 500 feet north of the well, Ecluid Beverage Ltd. - Quad County Distributing (Map Code 7) located 275 feet north of the well, and General Mills (Map Code 9) located 600 feet east of the well.

St. Charles Well No. 8 (IEPA #20104) - The survey area is urban consisting almost entirely of commercial businesses and partly of row crops. The well is located on the corner of Ohio Street and 37th Street. There are four visible potential sources, routes, or possible problem sites located within the minimum setback zone (400 feet). These sites are Power Packing Inc. (Map Code 3) located 400 feet northwest of the well, Machon Warehouse (Map Code 12) located 375 feet east of the well, OMRON (Map Code 15) located 250 feet south of the well, and Pumping Station 8 (Map Code 10) located at the well. Thirteen possible problem sites are located outside the minimum setback zone, but within the survey area (1500 feet). These sites are Flag Unlimited Inc. (Map Code 1) located 850 feet southwest of the well, Swift-Eckrich Inc. (Map Code 2) located 750 feet northwest of the well, Midwest Jobbers, Inc. (Map Code 4) located 425 feet southwest of the well, Shaped Wire Inc. (Map Code 5) located 1100 feet northwest of the well, Unknown (Map Code 6) located 1175 feet north of the well, United Laboratories (Map Code 7) located 700 feet north of the well, Dopaco Il. Inc. (Map Code 8) located 1060 feet southwest of the well, Empty Building (Map Code 9) located 1050 feet south of the well, Unknown (Map Code 11) located 1185 feet southeast of the well, American Color (Map Code 13) located 1365 feet southeast of the well, Timing Gears Company (Map Code 14) located 1150 feet northeast of the well, System Sensor (Map Code 16) located 800 feet southeast of the well, and Compact Metals Corp. (Map Code 17) located 1325 feet northeast of the well.

St. Charles Well No. 9 (IEPA #20105) - The survey area is rural consisting partly of moderate density residential housing, partly of commercial businesses and partly open fields. The well is located on Route 25 north of Country Club Road. There is one visible potential source, route, or possible problem site located within the minimum setback zone (400 feet). This site is Little Store (Map Code 2) located 275 feet northwest of the well. Two possible problem sites are located outside the minimum setback zone but within the survey area (1500 feet). These sites are Highland Subdivision private multi-flow septic system (Map Code 1) located 1125 feet northwest of the well, and Midwest Groundcovers (Map Code 3) located 400 feet southwest of the well.

St. Charles Well No. 11 (IEPA #00392) - The survey area is rural consisting partly of moderate density residential housing, partly of commercial businesses and partly open fields and woods. The well is located northeast of Well No. 9. There are no visible potential sources, routes, or possible problem sites located within the minimum setback zone (400 feet). Three possible problem sites are located outside the minimum setback zone, but within the survey area (1500 feet). These sites are Highland Subdivision private multi-flow septic system (Map Code 1) located 1350 feet southwest of the well, Little Store (Map Code 2) located 650 feet southwest of the well, and Midwest Groundcovers (Map Code 3) located 1300 feet southwest of the well.

SUMMARY

The well site survey conducted located several visible potential sources, routes, or possible problem sites within the minimum setback zone and outside the minimum setback zone but within the survey area of each well. The sampling and monitoring to date has detected no contamination in the groundwater utilized by the facility.

The Illinois Environmental Protection Act provides minimum protection zones for your wells. These minimum protection zones are regulated by the IEPA. The Act also authorizes county and municipal officials the opportunity to provide maximum protection up to 1,000 feet. The responsibility for the control would then be assumed by local officials through adoption of a maximum setback zone ordinance.

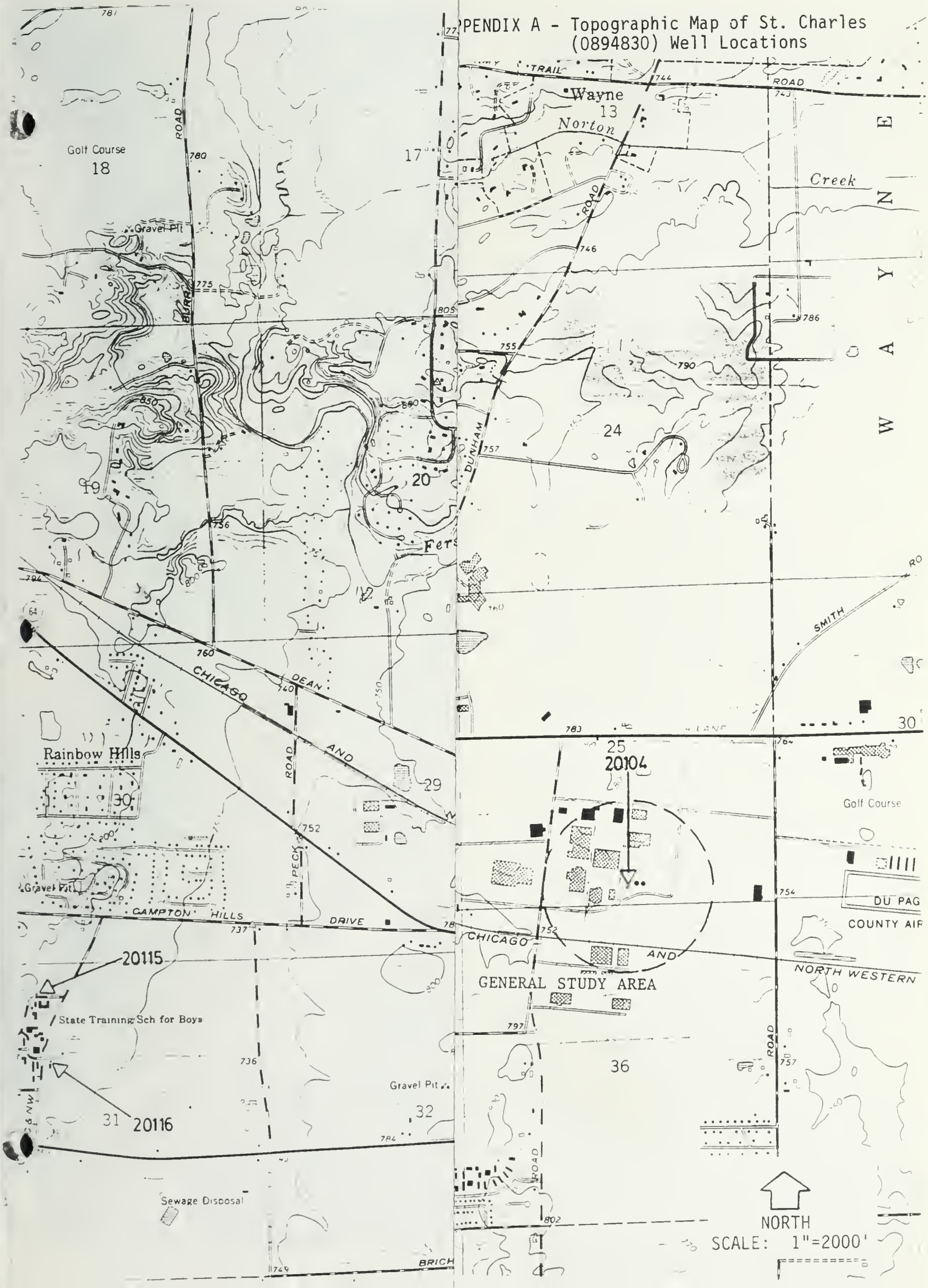
Maximum setback zones prohibit the siting of new potential primary sources of groundwater contamination. A maximum setback up to 1,000 feet could expand the regulatory coverage of certain existing and new activities. These controls could be implemented upon the adoption of proposed regulations by the Illinois Pollution Control Board.

RECOMMENDATIONS

The Agency strongly urges St. Charles to consider establishing a maximum setback zone for its wells. The Agency has prepared a "Maximum Setback Zone Workbook" which provides detailed case studies of how to establish maximum setback zones. In addition, technical assistance is available from the Agency and the Illinois State Water Survey.

TECHNICAL APPENDICES

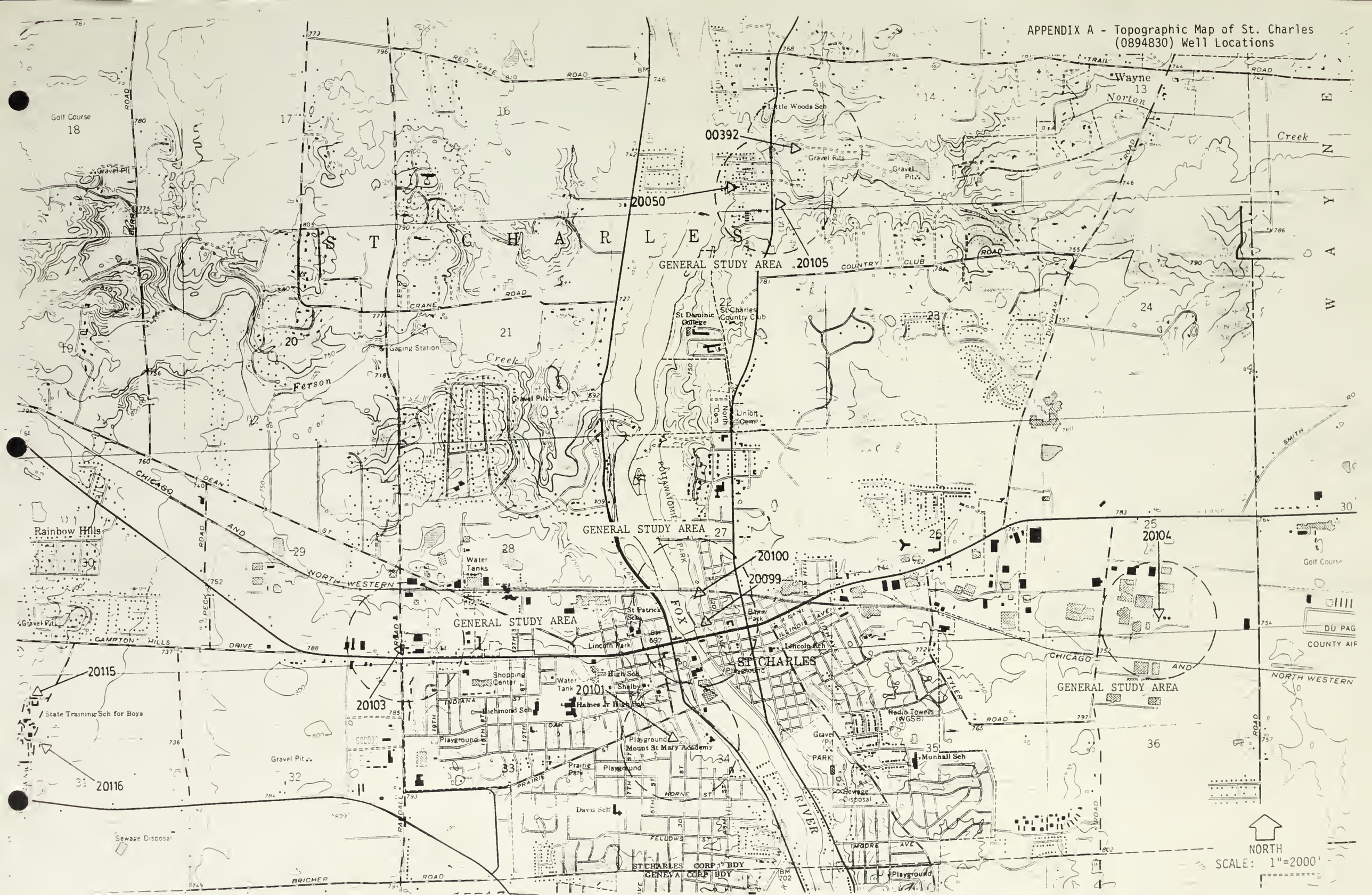
APPENDIX A - Topographic Map of St. Charles (0894830) Well Locations



1500'
1000'
400'
200'
FOX RIVER
200'
400'
1000'
NORTH
1500'
1000'
200'
PRAIRIE ST.
NORTH
1" = 400'
ST. CHARLES
0894830

1500'
1000'
400'
NORTH
NORTH
1"=400'
ST. CHARLES
08-4830

APPENDIX A - Topographic Map of St. Charles (0894830) Well Locations



Appendix B1 - WELL SITE SUMMARY DESCRIPTION AND GEOLOGIC PROFILE
St. Charles Well No. 3 (IEPA #20099)

SURVEYOR: Moyer
SURVEY DATE: 03-19-92
ADDRESS: Village of St. Charles
2 E. Main Street
St. Charles, IL 60174

AGENCY WELL NO.: 20099
WELL NAME & DESC: Well No. 3
TREATMENT APPLICATION POINT: 01
FACILITY NO. & NAME: 0894830 - St. Charles
FACILITY PHONE CONTACT: 708/377-4400

LOCATION: TWP, RNG, SECTION, 10 ACRE PLOT: 40N, 08E, 27, 5A
DISTANCE FROM CORNER: 0450N, 2000E
QUAD SHEET CODE & NAME: 034A - Geneva
MIN. SETBACK: 400 feet
MAX. SETBACK:

SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: Ax = Alluvium, a mixture of gravel, sand, silt, and clay along streams, variable in composition and thickness
AGE OF WELL (Date of Well Construction): 1919
WELL DEPTH: 1191 feet
CASING DEPTH: 670 feet
AQUIFER CODE: 6080 - Deep Bedrock
MULTIPLE AQUIFER (Y, N): Yes
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: The survey area is urban consisting partly of moderate density residential housing and mostly of commercial businesses.

APPENDIX B1 - INVENTORY & SYNOPSIS OF UNIT(S) St. Charles Well No. 3 (IEPA #20099)

*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY	OS = POTENTIAL SECONDARY
RI = ROUTE	OR = ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 20099-01
NAME & ADDRESS OF UNIT OWNER: City of St. Charles - Fire Department, 1st Street, St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Fire Department
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 25 feet east of the well

Appendix B2 - WELL SITE SUMMARY DESCRIPTION AND GEOLOGIC PROFILE
St. Charles Well No. 4 (IEPA #20100)

SURVEYOR: Moyer
SURVEY DATE: 03-19-92
ADDRESS: Village of St. Charles
2 E. Main Street
St. Charles, IL 60174

AGENCY WELL NO.: 20100
WELL NAME & DESC: Well No. 4
TREATMENT APPLICATION POINT: 02
FACILITY NO. & NAME: 0894830 - St. Charles
FACILITY PHONE CONTACT: 708/377-4400

LOCATION: TWP, RNG, SECTION, 10 ACRE PLOT: 40N, 08E, 27, 6B
DISTANCE FROM CORNER: 0950N, 1900E
QUAD SHEET CODE & NAME: 034A - Geneva
MIN. SETBACK: 400 feet
MAX. SETBACK:

SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: Ax = Alluvium, a mixture of gravel, sand, silt, and clay along streams, variable in composition and thickness
AGE OF WELL (Date of Well Construction): 1936
WELL DEPTH: 1647 feet
CASING DEPTH: 400 feet
AQUIFER CODE: 6080 - Deep Bedrock
MULTIPLE AQUIFER (Y, N): Yes
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: The survey area is urban consisting partly of moderate density residential housing and mostly of commercial businesses.

APPENDIX B2 - INVENTORY & SYNOPSIS OF UNIT(S) St. Charles Well No. 4 (IEPA #20100)

*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY	OS = POTENTIAL SECONDARY
RI = ROUTE	OR = ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 20100-01
NAME & ADDRESS OF UNIT OWNER: City of St. Charles - Fire Department, 1st Street, St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Fire Department
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 725 feet south of the well

Appendix B3 - WELL SITE SUMMARY DESCRIPTION AND GEOLOGIC PROFILE
St. Charles Well No. 5 (IEPA #20101)

SURVEYOR: Moyer
SURVEY DATE: 03-19-92
ADDRESS: Village of St. Charles
2 E. Main Street
St. Charles,, IL 60174

AGENCY WELL NO.: 20101
WELL NAME & DESC: Well No. 5
TREATMENT APPLICATION POINT: 03
FACILITY NO. & NAME: 0894830 - St. Charles
FACILITY PHONE CONTACT: 708/377-4400

LOCATION: TWP, RNG, SECTION, 10 ACRE PLOT: 40N, 08E, 34, 6E
DISTANCE FROM CORNER: 2050S, 1500E
QUAD SHEET CODE & NAME: 034A - Geneva
MIN. SETBACK: 200 feet
MAX. SETBACK:

SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: E = Uniform, relatively impermeable silty or clayey till at least 50 ft. thick, no evidence of interbedded sand and gravel.
AGE OF WELL (Date of Well Construction): 1947
WELL DEPTH: 1713 feet
CASING DEPTH: 296 feet
AQUIFER CODE: 6080 - Deep Bedrock
MULTIPLE AQUIFER (Y, N): Yes
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: The survey area is urban consisting entirely of moderate density residential housing.

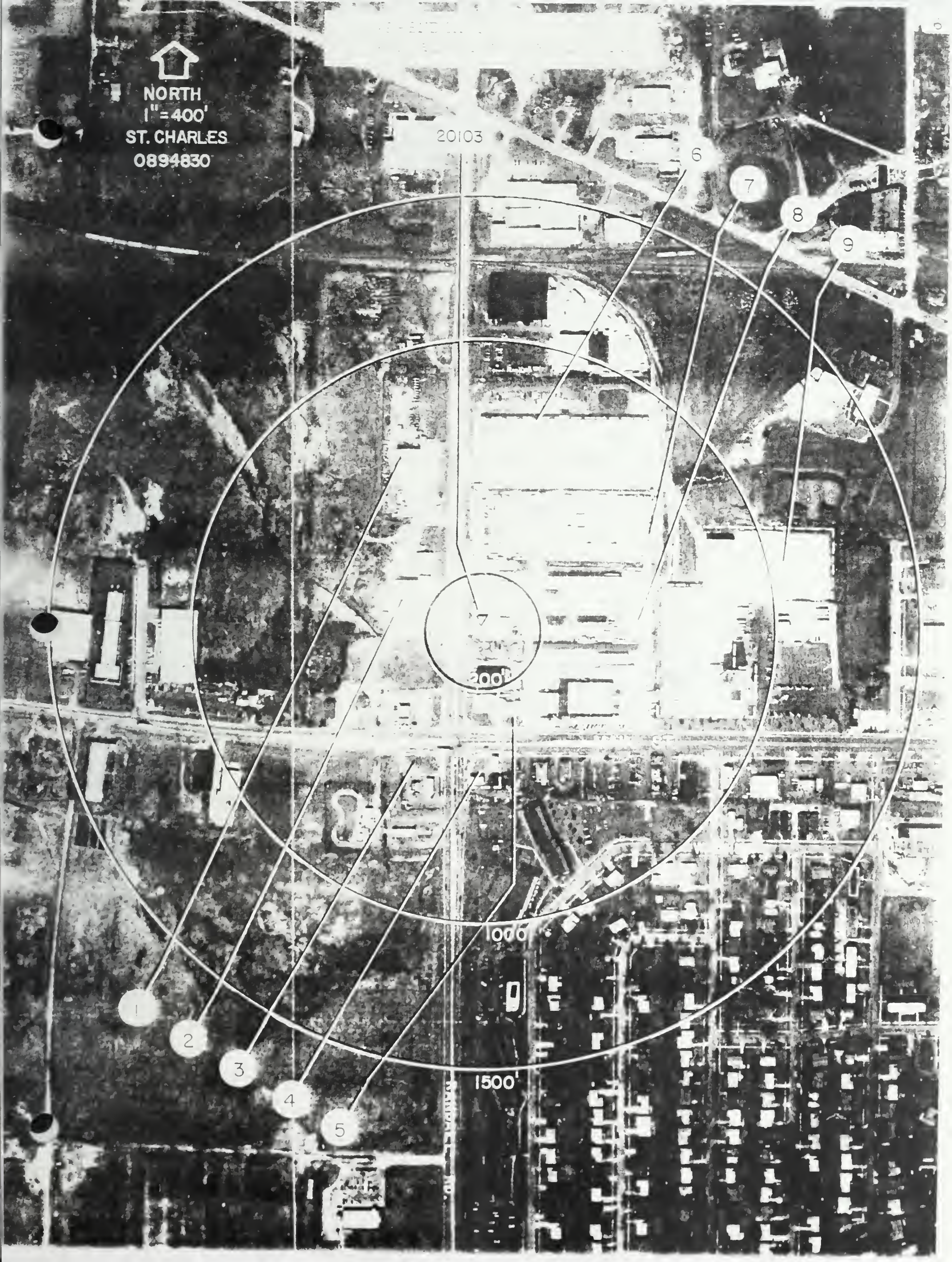
APPENDIX B3 - INVENTORY & SYNOPSIS OF UNIT(S) St. Charles Well No. 5 (IEPA #20101)

*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY	OS = POTENTIAL SECONDARY
RI = ROUTE	OR = ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 20101
NAME & ADDRESS OF UNIT OWNER:
DESCRIPTION AND COMMENTS: No visible potential sources, routes, or possible problem sites located in the survey area.
PRE OR POST (Y, N):
DISTANCE AND DIRECTION:

APPENDIX C


NORTH
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ST. CHARLES
0894830
20103
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1500

Appendix C1 - WELL SITE SUMMARY DESCRIPTION AND GEOLOGIC PROFILE
St. Charles Well No. 7 (IEPA #20103)

SURVEYOR: Moyer
SURVEY DATE: 03-19-92
ADDRESS: Village of St. Charles
2 E. Main Street
St. Charles, IL 60174

AGENCY WELL NO.: 20103
WELL NAME & DESC: Well No. 7
TREATMENT APPLICATION POINT: 04
FACILITY NO. & NAME: 0894830 - St. Charles
FACILITY PHONE CONTACT: 708/377-4400

LOCATION: TWP, RNG, SECTION, 10 ACRE PLOT: 40N, 08E, 28, 8A
DISTANCE FROM CORNER: 0600N, 0050E
QUAD SHEET CODE & NAME: 034A - Geneva
MIN. SETBACK: 200 feet
MAX. SETBACK:

SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: E = Uniform, relatively impermeable silty or clayey till at least 50 ft. thick, no evidence of interbedded sand and gravel.
AGE OF WELL (Date of Well Construction): 1963
WELL DEPTH: 172 feet
CASING DEPTH: 118 feet
AQUIFER CODE: 0101 - Sand and Gravel
MULTIPLE AQUIFER (Y, N): No
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: The survey area is urban consisting entirely of commercial businesses.

APPENDIX C1 - INVENTORY & SYNOPSIS OF UNIT(S) St. Charles Well No. 7 (IEPA #20103)

*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY	OS = POTENTIAL SECONDARY
RI = ROUTE	OR = ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 20103-01-OS
NAME & ADDRESS OF UNIT OWNER: Payline West - Ford - New Holland, 225 N. Randall Rd., St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Tractor & equipment sales, 2 registered underground storage tanks on site OSFM #2-005971. LUST Site - Incident #892188 - IEPA #0894835076 - gas, diesel and waste oil
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 500 feet northwest of the well

WELL NO. - MAP CODE - CLASSF*: 20103-02
NAME & ADDRESS OF UNIT OWNER: Shepherd Truck Services Inc., Randall Rd., St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Truck servicing
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 180 feet west of the well

WELL NO. - MAP CODE - CLASSF*: 20103-03-OS
NAME & ADDRESS OF UNIT OWNER: Citgo Quik Mart, 2101 W. Main, St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Gas station, 3 registered underground storage tanks on site OSFM #2-000768
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 450 feet southwest of the well

WELL NO. - MAP CODE - CLASSF*: 20103-04-OS
NAME & ADDRESS OF UNIT OWNER: Amoco, Rt. 64 and Randall Rd., St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Gas station, 5 registered underground storage tanks on site OSFM #2-023020
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 450 feet south of the well

APPENDIX C1 - INVENTORY & SYNOPSIS OF UNIT(S) St. Charles Well No. 7 (IEPA #20103)

*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY	OS = POTENTIAL SECONDARY
RI = ROUTE	OR = ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 20103-05-OS
NAME & ADDRESS OF UNIT OWNER: Fox River Tire and Supply Inc., 2010 W. Main St., St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Tire sales, 1 registered underground storage tank on site OSFM #2-025321
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 225 feet south of the well

WELL NO. - MAP CODE - CLASSF*: 20103-06-OS
NAME & ADDRESS OF UNIT OWNER: Seigle's Lumber, 300 N. Randall Rd., St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Lumber yard, 1 registered underground storage tank on site OSFM #2-015681
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 500 feet north of the well

WELL NO. - MAP CODE - CLASSF*: 20103-07-OS
NAME & ADDRESS OF UNIT OWNER: Ecluid Beverage Ltd. - Quad County Distributing Co., 248 N. Randall Rd., St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Beverage distributor, 2 registered underground storage tanks on site OSFM #2-005138. LUST site - Incident #901694 - IEPA #0894835032 - unlead gas and diesel
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 275 feet north of the well

WELL NO. - MAP CODE - CLASSF*: 20103-08-PS
NAME & ADDRESS OF UNIT OWNER: Edward Hines Lumber Co., 2020 W. Main St., St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Lumber yard, 1 registered underground storage tank on site OSFM #2-014003
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 150 feet east of the well

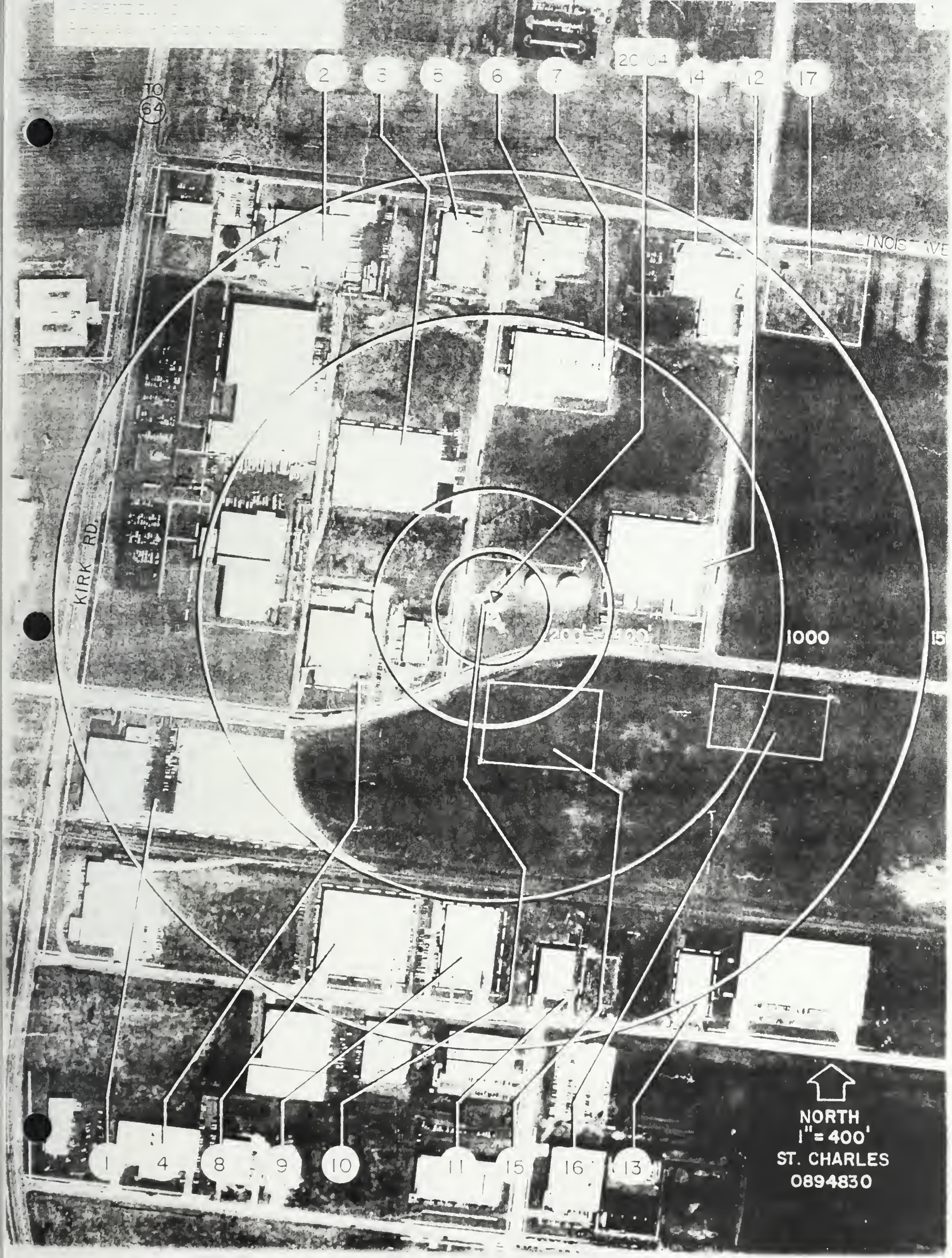
APPENDIX C1 - INVENTORY & SYNOPSIS OF UNIT(S) St. Charles Well No. 7 (IEPA #20103)

*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY	OS = POTENTIAL SECONDARY
RI = ROUTE	OR = ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 20103-09
NAME & ADDRESS OF UNIT OWNER: General Mills, 1850 W. Main St., St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Food processing, packaging and distributing
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 600 feet east of the well

APPENDIX D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NORTH
1"=400'
ST. CHARLES
0894830

Appendix D1 - WELL SITE SUMMARY DESCRIPTION AND GEOLOGIC PROFILE
St. Charles Well No. 8 (IEPA #20104)

SURVEYOR: Moyer
SURVEY DATE: 03-19-92
ADDRESS: Village of St. Charles
2 E. Main Street
St. Charles, IL 60174

AGENCY WELL NO.: 20104
WELL NAME & DESC: Well No. 8
TREATMENT APPLICATION POINT: 05
FACILITY NO. & NAME: 0894830 - St. Charles
FACILITY PHONE CONTACT: 708/377-4400

LOCATION: TWP, RNG, SECTION, 10 ACRE PLOT: 40N, 08E, 25, 4A
DISTANCE FROM CORNER: 0186N, 2472W
QUAD SHEET CODE & NAME: 034A - Geneva
MIN. SETBACK: 400 feet
MAX. SETBACK:

SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: A2 = Thick, permeable sand and gravel within 20 ft. of land surface
AGE OF WELL (Date of Well Construction): 1978
WELL DEPTH: 1373 feet
CASING DEPTH:
AQUIFER CODE: 6393 - Deep Bedrock
MULTIPLE AQUIFER (Y, N): Yes
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: The survey area is urban consisting almost entirely of commercial businesses and partly of row crops.

APPENDIX D1 - INVENTORY & SYNOPSIS OF UNIT(S) St. Charles Well No. 8 (IEPA #20104)

*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY	OS = POTENTIAL SECONDARY
RI = ROUTE	OR = ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 20104-01
NAME & ADDRESS OF UNIT OWNER: Flag Unlimited Inc., 3415 Ohio St., St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Flag sales
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 850 feet southwest of the well

WELL NO. - MAP CODE - CLASSF*: 20104-02-OS
NAME & ADDRESS OF UNIT OWNER: Swift-Eckrich Inc., 410 Kirk Rd., St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Manufacture brown and serve sausage and dry sausage, 2 registered underground storage tanks on site OSFM #2-011898
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 750 feet west-northwest of the well

WELL NO. - MAP CODE - CLASSF*: 20104-03
NAME & ADDRESS OF UNIT OWNER: Power Packing Inc., 425 S. 37th Ave., St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Packing company
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 400 feet northwest of the well

WELL NO. - MAP CODE - CLASSF*: 20104-04-OS
NAME & ADDRESS OF UNIT OWNER: Midwest Jobbers, Inc., 3620 Ohio Ave., St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Unknown, 1 registered underground storage tank on site OSFM #2-000300. LUST site - Incident #891260 - IEPA #0894835103 - diesel
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 425 feet southwest of the well

APPENDIX D1 - INVENTORY & SYNOPSIS OF UNIT(S) St. Charles Well No. 8 (IEPA #20104)

*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY	OS = POTENTIAL SECONDARY
RI = ROUTE	OR = ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 20104-05
NAME & ADDRESS OF UNIT OWNER: Shaped Wire Inc., 3655 Illinois Ave., St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Roll shaped wire
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 1100 feet northwest of the well

WELL NO. - MAP CODE - CLASSF*: 20104-06
NAME & ADDRESS OF UNIT OWNER: Unknown, 3701 Illinois Ave., St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Unknown
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 1175 feet north of the well

WELL NO. - MAP CODE - CLASSF*: 20104-07
NAME & ADDRESS OF UNIT OWNER: United Laboratories, 37th Ave., St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Manufacture of cleaning, sanitizing and specialty chemicals
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 700 feet north of the well

WELL NO. - MAP CODE - CLASSF*: 20104-08
NAME & ADDRESS OF UNIT OWNER: Dopaco Il. Inc., Stern Dr., St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Packaging company
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 1060 feet southwest of the well

APPENDIX D1 - INVENTORY & SYNOPSIS OF UNIT(S) St. Charles Well No. 8 (IEPA #20104)

*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY	OS = POTENTIAL SECONDARY
RI = ROUTE	OR = ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 20104-09
NAME & ADDRESS OF UNIT OWNER: Empty building, Stern Dr., St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Unknown
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 1050 feet south of the well

WELL NO. - MAP CODE - CLASSF*: 20104-10-PS
NAME & ADDRESS OF UNIT OWNER: Pumping station 8, 454 S. 37th Ave., St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Well No. 8 - 5000 gals. of diesel, 1 registered underground storage tank on site OSFM #2-026855
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: at the well

WELL NO. - MAP CODE - CLASSF*: 20104-11
NAME & ADDRESS OF UNIT OWNER: Unknown, Stern Dr., St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Unknown
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 1185 feet southeast of the well

WELL NO. - MAP CODE - CLASSF*: 20104-12
NAME & ADDRESS OF UNIT OWNER: Machon Warehouse, 38th Ave., St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Unknown
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 375 feet east of the well

APPENDIX D1 - INVENTORY & SYNOPSIS OF UNIT(S) St. Charles Well No. 8 (IEPA #20104)

*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY	OS = POTENTIAL SECONDARY
RI = ROUTE	OR = ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 20104-13
NAME & ADDRESS OF UNIT OWNER: American Color, Stern Dr., St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Printing company
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 1365 feet southeast of the well

WELL NO. - MAP CODE - CLASSF*: 20104-14
NAME & ADDRESS OF UNIT OWNER: Timing Gears Company - Compacted Metals Inc., 3755 Illinois Ave., St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Gear company
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 1150 feet northeast of the well

WELL NO. - MAP CODE - CLASSF*: 20104-15
NAME & ADDRESS OF UNIT OWNER: OMRON, Ohio St., St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Unknown
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 250 feet south of the well

WELL NO. - MAP CODE - CLASSF*: 20104-16
NAME & ADDRESS OF UNIT OWNER: System Sensor, Ohio St., St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Unknown
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 800 feet southeast of the well

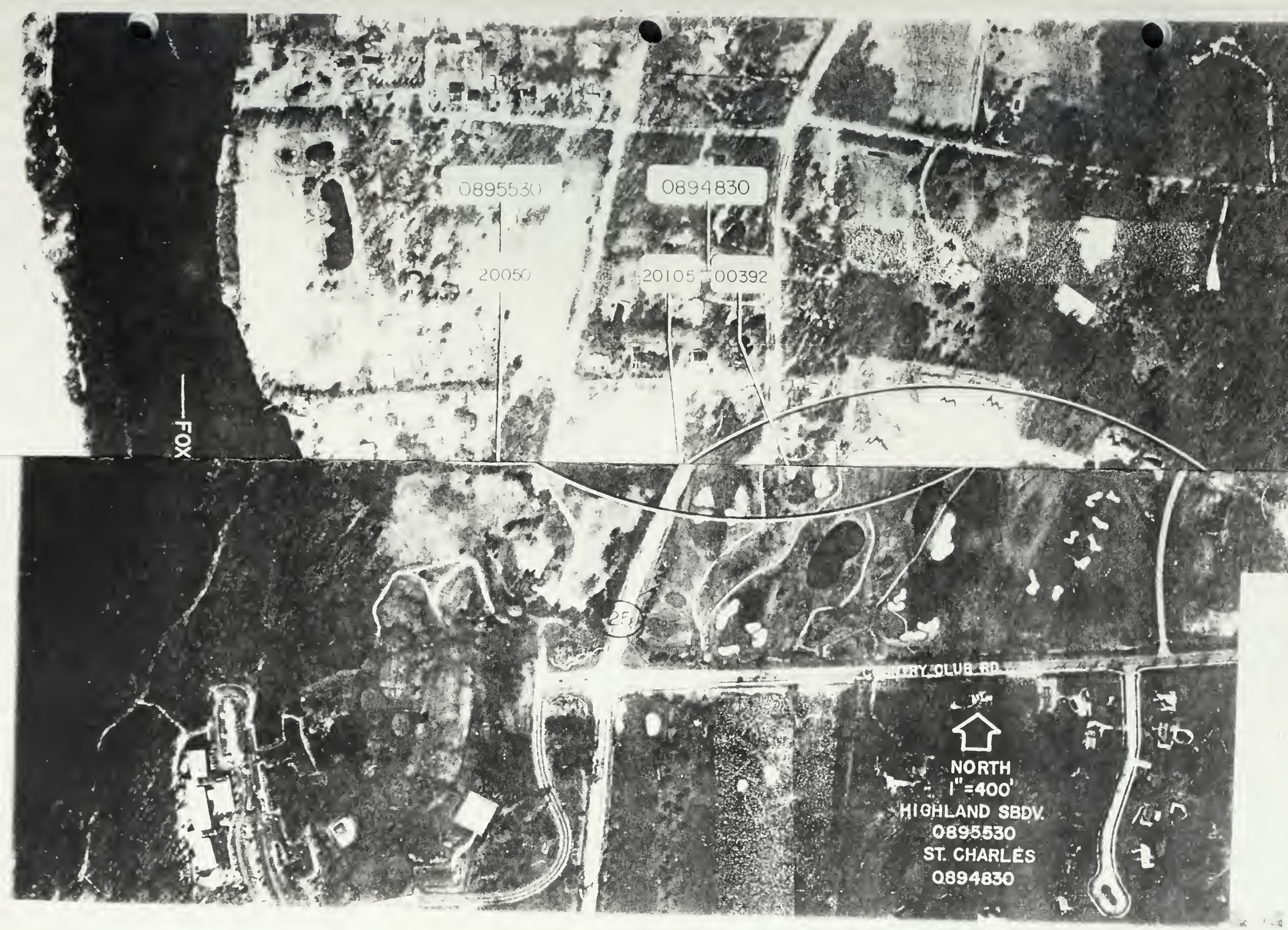
APPENDIX D1 - INVENTORY & SYNOPSIS OF UNIT(S) St. Charles Well No. 8 (IEPA #20104)

*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY	OS = POTENTIAL SECONDARY
RI = ROUTE	OR = ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 20104-17
NAME & ADDRESS OF UNIT OWNER: Compact Metals Corp., 38th Ave., St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Produce powdered metal parts
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 1325 feet northeast of the well

APPENDIX E


0895530
20050
0894830
20105
00392
FOX
NORTH
1"=400'
HIGHLAND SBDV.
0895530
ST. CHARLES
0894830

0894830

20105 00392

0895530

20050

FOX RIVER

100'

200'

400'

1500'

NORTH
1"=400'
HIGHLAND SBDV.
0895530
ST. CHARLES
0894830

1

2

3

Appendix E1 - WELL SITE SUMMARY DESCRIPTION AND GEOLOGIC PROFILE
St. Charles Well No. 9 (IEPA #20105)

SURVEYOR: Moyer
SURVEY DATE: 03-19-92
ADDRESS: Village of St. Charles
2 E. Main Street
St. Charles, IL 60174

AGENCY WELL NO.: 20105
WELL NAME & DESC: Well No. 9
TREATMENT APPLICATION POINT: 06
FACILITY NO. & NAME: 0894830 - St. Charles
FACILITY PHONE CONTACT: 708/377-4400

LOCATION: TWP, RNG, SECTION, 10 ACRE PLOT: 40N, 08E, 15, 2A
DISTANCE FROM CORNER: 0350N, 1150W
QUAD SHEET CODE & NAME: 034A - Geneva
MIN. SETBACK: 400 feet
MAX. SETBACK:

SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: B1 = Sand and gravel less than 20 ft. thick over relatively impermeable till or bedrock
AGE OF WELL (Date of Well Construction): 1979
WELL DEPTH: 86 feet
CASING DEPTH:
AQUIFER CODE: 0101 - Sand and Gravel
MULTIPLE AQUIFER (Y, N): No
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: The survey area is rural consisting partly of moderate density residential housing, partly of commercial businesses and partly open fields.

APPENDIX E1 - INVENTORY & SYNOPSIS OF UNIT(S) St. Charles Well No. 9 (IEPA #20105)

*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY	OS = POTENTIAL SECONDARY
RI = ROUTE	OR = ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 20105-01
NAME & ADDRESS OF UNIT OWNER: Highland Subdivision, 35W310 Sunset Dr., St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Private multi-flow septic system
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 1125 feet northwest of the well

WELL NO. - MAP CODE - CLASSF*: 20105-02
NAME & ADDRESS OF UNIT OWNER: Little Store, Rt. 25 & Lambert Ave., St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Convenient store
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 275 feet northwest of the well

WELL NO. - MAP CODE - CLASSF*: 20105-03
NAME & ADDRESS OF UNIT OWNER: Midwwest Groundcovers, 7N268 Rt. 25N, St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Nursery and greenhouses. Amount of onsite bulk fertilizer(s) unknown
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 400 feet southwest of the well

Appendix E2 - WELL SITE SUMMARY DESCRIPTION AND GEOLOGIC PROFILE
St. Charles Well No. 11 (IEPA #00392)

SURVEYOR: Moyer
SURVEY DATE: 03-19-92
ADDRESS: Village of St. Charles
2 E. Main Street
St. Charles, IL 60174

AGENCY WELL NO.: 00392
WELL NAME & DESC: Well No. 11
TREATMENT APPLICATION POINT: 07
FACILITY NO. & NAME: 0894830 - St. Charles
FACILITY PHONE CONTACT: 708/377-4400

LOCATION: TWP, RNG, SECTION, 10 ACRE PLOT: 40N, 08E, 15, 1C
DISTANCE FROM CORNER: 1418N, 1018W
QUAD SHEET CODE & NAME: 034A - Geneva
MIN. SETBACK: 400 feet
MAX. SETBACK:

SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: B1 = Sand and gravel less than 20 ft. thick over relatively impermeable till or bedrock
AGE OF WELL (Date of Well Construction): 1988
WELL DEPTH: 129 feet
CASING DEPTH: 90 feet
AQUIFER CODE: 0101 - Sand and Gravel
MULTIPLE AQUIFER (Y, N): No
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: The survey area is rural consisting partly of moderate density residential housing, partly of commercial businesses and partly open fields and woods.

APPENDIX E2 - INVENTORY & SYNOPSIS OF UNIT(S) St. Charles Well No. 11 (IEPA #00392)

*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY	OS = POTENTIAL SECONDARY
RI = ROUTE	OR = ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 00392-01
NAME & ADDRESS OF UNIT OWNER: Highland Subdivision, 35W310 Sunset Dr., St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Private multi-flow septic system
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 1350 feet southwest of the well

WELL NO. - MAP CODE - CLASSF*: 00392-02
NAME & ADDRESS OF UNIT OWNER: Little Store, Rt. 25 & Lambert Ave., St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Convenient store
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 650 feet southwest of the well

WELL NO. - MAP CODE - CLASSF*: 00392-03
NAME & ADDRESS OF UNIT OWNER: Midwest Groundcovers, 7N268 Rt. 25N, St. Charles, IL 60174
DESCRIPTION AND COMMENTS: Nursery and greenhouses. Amount of onsite bulk fertilizer(s) unknown
PRE OR POST (Y, N): Yes
DISTANCE AND DIRECTION: 1300 feet southwest of the well

APPENDIX F

3030 ST CHARLES

OWNER

FRED E L MORRIS

MAYOR - CITY HALL

2 E MAIN ST

ST CHARLES IL 60174

OFFICIAL CUSTODIAN

WELL: 00392 WELL 11 .2 MI NE WELL 9 STATUS: ACTIVE DEPTH(FT): 129
LATITUDE: N41 56 46.2 LONGITUDE: W088 18 13.8 TWP: 40N RNG: 08E SEC: 15 PLOT: 1C

SUSCEPTIBILITY - LAND BURIAL: SUSCEPTIBILITY - LAND SPREADING: --- MINIMUM SETBACK(FT): 0200 ---
AQUIFERS: SAND&GRAVEL-PLIOCENE AND PLEISTOCENE SERI

WELL: 20099 WELL 3 E OF FOX RVR NR CTY HALL STATUS: ACTIVE DEPTH(FT): 1191
LATITUDE: N41 55 55.1 LONGITUDE: W088 18 50.0 TWP: 40N RNG: 08E SEC: 27 PLOT: 5A

SUSCEPTIBILITY - LAND BURIAL: AX SUSCEPTIBILITY - LAND SPREADING: D2 --- MINIMUM SETBACK(FT): 0400 ---
AQUIFERS: CINCINNATION SERIES
GLENWOOD FORMATION OF ANCELL GROUP
CANADIAN SERIES
EMINENCE FORMATION
IRONTON-GALESVILLE
CHAMPLAINIAN SERIES
ST. PETER SANDSTONE OF ANCELL GROUP
CAMBRIAN SYSTEM
FRANCONIA FORMATION
POTOSI FORMATION

WELL: 20100 WELL 4 E OF FOX RVR N OF WELL 3 STATUS: ACTIVE DEPTH(FT): 1647
LATITUDE: N41 55 03.3 LONGITUDE: W088 18 51.3 TWP: 40N RNG: 08E SEC: 27 PLOT: 6B

SUSCEPTIBILITY - LAND BURIAL: AX SUSCEPTIBILITY - LAND SPREADING: D2 --- MINIMUM SETBACK(FT): 0400 ---
AQUIFERS: CINCINNATION SERIES
GLENWOOD FORMATION OF ANCELL GROUP
CANADIAN SERIES
EMINENCE FORMATION
IRONTON-GALESVILLE
CHAMPLAINIAN SERIES
ST. PETER SANDSTONE OF ANCELL GROUP
CAMBRIAN SYSTEM
FRANCONIA FORMATION
POTOSI FORMATION

WELL: 20101 WELL 5 3RD & BOWMAN STATUS: ACTIVE BACKUP DEPTH(FT): 1713
LATITUDE: N41 54 29.0 LONGITUDE: W088 18 55.0 TWP: 40N RNG: 08E SEC: 34 PLOT: 6E

SUSCEPTIBILITY - LAND BURIAL: E SUSCEPTIBILITY - LAND SPREADING: D2 --- MINIMUM SETBACK(FT): 0200 ---
AQUIFERS: CINCINNATION SERIES
GLENWOOD FORMATION OF ANCELL GROUP
CANADIAN SERIES
EMINENCE FORMATION
IRONTON-GALESVILLE
CHAMPLAINIAN SERIES
ST. PETER SANDSTONE OF ANCELL GROUP
CAMBRIAN SYSTEM
FRANCONIA FORMATION
POTOSI FORMATION

FACILITY: 0894830 ST. CHARLES (CONTINUED)

WELL: 20102 WELL 6 INTERSECTION OF 4TH & MOODY STS STATUS: ABANDONED DEPTH(FT): 1502
LATITUDE: N41 54 31.0 LONGITUDE: W088 18 56.0 TWP: 40N RNG: 08E SEC: 34 PLOT: 6F

SUSCEPTIBILITY - LAND BURIAL: E SUSCEPTIBILITY - LAND SPREADING: 02 --- MINIMUM SETBACK(FT): NONE ---
AQUIFERS: CINCINNATIAN SERIES CHAMPLAINIAN SERIES
GLENWOOD FORMATION OF ANCELL GROUP ST. PETER SANDSTONE OF ANCELL GROUP
CANADIAN SERIES CROIXIAN SYSTEM
EMINENCE FORMATION FRANCONIA FORMATION
IRONTON-GALESVILLE POTOSI FORMATION

WELL: 20103 WELL 7 RANDALL RD BLK N OF MAIN STATUS: ACTIVE DEPTH(FT): 172
LATITUDE: N41 54 55.5 LONGITUDE: W088 20 24.0 TWP: 40N RNG: 08E SEC: 29 PLOT: 8A

SUSCEPTIBILITY - LAND BURIAL: E SUSCEPTIBILITY - LAND SPREADING: 02 --- MINIMUM SETBACK(FT): 0200 ---
AQUIFERS: QUATERNARY SYSTEM PLEISTOCENE SERIES

WELL: 20104 WELL 8 S KIRK .5 MI S HWY 64 STATUS: ACTIVE DEPTH(FT): 1373
LATITUDE: N41 54 32.0 LONGITUDE: W088 16 33.0 TWP: 40N RNG: 09E SEC: 25 PLOT: 4A

SUSCEPTIBILITY - LAND BURIAL: A2 SUSCEPTIBILITY - LAND SPREADING: --- MINIMUM SETBACK(FT): 0400 ---
AQUIFERS: GLENWOOD FORMATION OF ANCELL GROUP ST. PETER SANDSTONE OF ANCELL GROUP
CANADIAN SERIES EMINENCE FORMATION
FRANCONIA FORMATION IRONTON-GALESVILLE
POTOSI FORMATION

WELL: 20105 WELL 9 HWY 25 1/4 MI N COUNTRY CLUB RD STATUS: ACTIVE DEPTH(FT): 86
LATITUDE: N41 56 35.0 LONGITUDE: W088 18 20.0 TWP: 40N RNG: 08E SEC: 15 PLOT: 2A

SUSCEPTIBILITY - LAND BURIAL: B1 SUSCEPTIBILITY - LAND SPREADING: --- MINIMUM SETBACK(FT): 0400 ---

SUSCEPTIBILITY CODES
LAND BURIAL: AX = ALLUVIUM, A MIXTURE OF GRAVEL, SAND, SILT, AND CLAY ALONG STREAMS, VARIABLE IN COMPOSITION AND THICKNESS.
E = UNIFORM, RELATIVELY IMPERMEABLE SILTY OR CLAYEY TILL AT LEAST 50 FT THICK; NO EVIDENCE OF INTERBEDDED SAND AND GRAVEL.
A2 = THICK, PERMEABLE SAND AND GRAVEL WITHIN 20 FT OF LAND SURFACE.
B1 = SAND AND GRAVEL LESS THAN 20 FT THICK OVER RELATIVELY IMPERMEABLE TILL OR BEDROCK.
LAND SPREADING: 02 = UNIFORM, RELATIVELY IMPERMEABLE SILTY OR CLAYEY TILL AT LEAST 50 FT THICK; NO EVIDENCE OF INTERBEDDED SAND AND GRAVEL.

APPENDIX G

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES
SELECTED SAMPLE EXPANDED REPORT

FACILITY: 0894830 ST CHARLES STATUS: A PUBLIC: Y COMM: Y TYPE WATER: G
TAP: STATUS:
RAW SRCE: STATUS:

SAMPLE NO: 810539300 LOCATION: ST CHARLES 2900 N 5TH WELL 11 COLL DATE: 04/23/91 DELIVERED BY: UPS
SMPL TYPE: RAW COLLECTOR: [illegible] LAB RCVD: 04/24/91 RECEIVED BY: MAO
SMPL PURP: 5-SPEC/OTHR COMMENTS: LAB COMPL: 05/31/91 LAB SUPERVISOR: RPF
SMPL PROG: C-CHEMICAL OBSRVATNS: SMPL PERIOD: 04/91 FUND CODE: PW30

ANALYSIS ST	RSLT SEQ	STORET ID	DESCRIPTION	UNITS	RESULT		STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
100T000	001	00403	PH LABORATORY UNITS	UNITS	7.400				
101T000	001	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C	UM/CM	934.000				
102T000	001	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L	MG/L	538.000				
103T000	001	00410	ALKALINITY,TOTAL MG/L AS CACO3	MG/L	380.000				
105T000	001	00900	HARDNESS,EDTA MG/L AS CACO3	MG/L	458.000				
107T000	001	00951	FLUORIDE,TOTAL MG/L AS F	MG/L	0.150		4.000		
108T000	001	00940	CHLORIDE,TOTAL MG/L AS CL	MG/L	22.000				
109T000	001	00945	SULFATE,TOTAL MG/L AS SO4	MG/L	67.000				
110T000	001	00630	NITRATE & NITRITE TOTAL MG/L AS N	MG/L	0.350		10.000		
111T000	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N	MG/L	0.240				
114T000	001	00956	SILICA,TOTAL MG/L AS SIO2	MG/L	17.000				
115T000	001	00720	CYANIDE,TOTAL MG/L AS CN	MG/L	0.005	<	0.200		
144T000	001	01002	ARSENIC,TOTAL RECOVERABLE UG/L AS AS	UG/L	1.000	<	50.000		
151T100	001	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB	UG/L	5.000	<	50.000		
153T000	001	71900	MERCURY,TOTAL UG/L AS HG	UG/L	0.050	<	2.000		
155T000	001	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE	UG/L	1.000	<	10.000		
177T100	001	01916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	96.000				
177T100	002	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	51.000				
177T100	003	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP	MG/L	13.600				
177T100	004	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP	MG/L	2.500				
177T100	005	01105	ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP	UG/L	150.000	<			
177T100	006	01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP	UG/L	46.000		1000.000		
177T100	007	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP	UG/L	64.000				
177T100	008	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP	UG/L	1.000	<			
177T100	009	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB	UG/L	5.000	<	10.000		
177T100	010	01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB	UG/L	5.000	<	50.000		
177T100	011	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	UG/L	10.000	<	5000.000		
177T100	012	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP	UG/L	5.000	<			
177T100	013	01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP	UG/L	60.000	<	1000.000		
177T100	014	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	UG/L	15.000	<	150.000		
177T100	015	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	UG/L	5.000	<			
177T100	016	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	UG/L	5.000	<	50.000		
177T100	017	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	UG/L	270.000				
177T100	018	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP	UG/L	5.000	<			
177T100	019	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	UG/L	50.000	<	5000.000		
177T100	020	82394	HARDNESS, CALC - MG/L	MG/L	451.000				

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES
SELECTED SAMPLE EXPANDED REPORT

FACILITY: 0894830 ST CHARLES STATUS: A PUBLIC: Y COMM: Y TYPE WATER: G
TAP: 01 WELL 3 STATUS: A
RAW SRCE: 20099 WELL 3 E OF FOX RVR NR CTY HALL STATUS: A

SAMPLE NO: 891373700 LOCATION: ST CHARLES WELL 3 COLL DATE: 09/20/89 DELIVERED BY: UPS
SMPL TYPE: RAW COLLECTOR: ME LAB RCVD: 09/21/89 RECEIVED BY: PHD
SMPL PURP: 1-ROUTINE COMMENTS: LAB COMPL: 11/02/89 LAB SUPERVISOR: RPF
SMPL PROG: C-CHEMICAL OBSRVATNS: SMPL PERIOD: 09/89 FUND CODE: PW30

ANALYSIS	RSLT	STORET	DESCRIPTION	UNITS	RESULT		STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
100T000	001	00403	PH LABORATORY UNITS	UNITS	7.300				
101T000	001	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C	UM/CM	580.000				
102T000	001	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L	MG/L	327.000				
103T000	001	00410	ALKALINITY,TOTAL MG/L AS CACO3	MG/L	304.000				
105T000	001	00900	HARDNESS,EDTA MG/L AS CACO3	MG/L	251.000				
107T000	001	00951	FLUORIDE,TOTAL MG/L AS F	MG/L	0.720			4.000	
108T000	001	00940	CHLORIDE,TOTAL MG/L AS CL	MG/L	6.200				
109T000	001	00945	SULFATE,TOTAL MG/L AS SO4	MG/L	12.000				
110T000	001	00630	NITRATE & NITRITE TOTAL MG/L AS N	MG/L	0.100	<	10.000		
111T000	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N	MG/L	0.520				
114T000	001	00956	SILICA,TOTAL MG/L AS SIO2	MG/L	6.900				
116T000	001	00720	CYANIDE,TOTAL MG/L AS CN	MG/L	0.005	<	0.200		
144T000	001	01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS	UG/L	1.000	<	50.000		
151T100	001	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB	UG/L	5.000	<	50.000		
153T000	001	71900	MERCURY,TOTAL UG/L AS HG	UG/L	0.050	<	2.000		
155T000	001	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE	UG/L	1.000	<	10.000		
177T100	001	00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	64.000				
177T100	002	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	25.000				
177T100	003	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP	MG/L	19.000				
177T100	004	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP	MG/L	11.000				
177T100	005	01105	ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP	UG/L	50.000	<			
177T100	006	01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP	UG/L	1970.000		1000.000*		
177T100	007	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP	UG/L	260.000				
177T100	008	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP	UG/L	0.500	<			
177T100	009	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB	UG/L	3.000	<	10.000		
177T100	010	01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB	UG/L	5.000	<	50.000		
177T100	011	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	UG/L	5.000	<	5000.000		
177T100	012	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP	UG/L	5.000	<			
177T100	013	01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP	UG/L	184.000		1000.000		
177T100	014	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	UG/L	8.000		150.000		
177T100	015	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	UG/L	5.000	<			
177T100	016	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	UG/L	3.000	<	50.000		
177T100	017	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	UG/L	2673.000				
177T100	018	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP	UG/L	5.000	<			
177T100	019	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	UG/L	50.000	<	5000.000		
177T100	020	82394	HARDNESS, CALC - MG/L	MG/L	260.000				

SAMPLE NO: 2003598 LOCATION: WELL COLL DATE: 09/26/86 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR LAB RCVD: 00/00/00 RECEIVED BY:
SMPL PURP: 5-SPEC/OTHR COMMENTS: LAB COMPL: 00/00/00 LAB SUPERVISOR:

FACILITY: 0894830 ST CHARLES *** CONTINUED ***

SMPL PROG: I-GWM INORG OBSRVATNS: SMPL PERIOD: 09/86 FUND CODE:

ANALYSIS ID	SOLT NO	STORET NO	DESCRIPTION	UNITS	RESULT		DRINK WTR STANDARDS	RAW WTR STANDARDS	TRIGGER LEVEL
[illegible]	021	71610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.420				
[illegible]	[illegible]	[illegible]	NITRATE & NITRITE TOTAL MG/L AS N		0.100	<	10.000		
0000001	003	00665	PHOSPHORUS, TOTAL MG/L AS P		0.030				
0000001	004	00720	CYANIDE,TOTAL MG/L AS CN		0.010	<	0.200		
0000001	005	00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		63.000				
0000001	006	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		23.000				
0000001	007	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		19.000				
[illegible]	008	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		3.000				
0000001	009	00940	CHLORIDE,TOTAL MG/L AS CL		7.000				
[illegible]	[illegible]	945	SULFATE,TOTAL MG/L AS SO4		20.000				
0000001	011	00951	FLUORIDE,TOTAL MG/L AS F		0.740		4.000		
[illegible]	[illegible]	955	SILICA,TOTAL MG/L AS SIO2		7.000				
0000001	013	01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS		1.000	<	50.000		
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]		[illegible]		
[illegible]	[illegible]	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		0.500	<			
[illegible]	[illegible]	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		132.000				
[illegible]	017	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICP		3.000	<	10.000		
[illegible]	[illegible]	01034	CHROMIUM,TOTAL RECOVERABLE UG/L AS CR ANAL BY ICP		5.000	<	50.000		
0000001	019	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP		5.000	<			
[illegible]	[illegible]	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP		5.000	<	5000.000		
0000001	021	01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP		181.000		1000.000		
[illegible]	[illegible]	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB		5.000	<	50.000		
0000001	023	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP		5.000	<	150.000		
[illegible]	[illegible]	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP		5.000	<			
0000001	025	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP		3.000	<	50.000		
[illegible]	[illegible]	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP		2596.000				
0000001	027	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP		5.000	<			
[illegible]	[illegible]	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP		50.000	<	5000.000		
[illegible]	[illegible]	01105	ALUMINUM,TOTAL RECOVERABLE UG/L AS AL ANAL BY ICP		50.000	<			
[illegible]	[illegible]	01147	SELENIUM,TOTAL RECOVERABLE UG/L AS SE		1.000	<	10.000		
0000001	031	32730	PHENOLS, TOTAL RECOVERABLE UG/L		5.000	<			
[illegible]	[illegible]	70300	RESIDUE,TOTAL FILTERABLE 0105 C,MG/L		399.000				
0000001	033	71900	MERCURY,TOTAL UG/L AS HG		0.130		2.000		
[illegible]	[illegible]	[illegible]	WATER TEMPERATURE DEG C		13.500				
0000001	035	00059	FLOW (PUMPING) RATE GAL/MIN		752.000				
[illegible]	[illegible]	[illegible]	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS		97.000				
[illegible]	037	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C		1335.000				
[illegible]	[illegible]	[illegible]	PH PH UNITS		7.200				
0000001	039	00410	ALKALINITY,TOTAL MG/L AS CACO3		309.000				
[illegible]	043	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN		100.000				
0000001	041	72019	DEPTH FROM LAND SURFACE TO WATER SURFACE		651.000				
[illegible]	042	99410			309.000				

SAMPLE NO: 8011467 LOCATION: WELL #3 COLL DATE: 09/14/83 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: P MARSCHINKE LAB RCVD: 10/19/83 RECEIVED BY:

FACILITY: 0894830 ST CHARLES *** CONTINUED ***

SMPL PURP: 1-ROUTINE COMMENTS: LAB COMPL: LAB SUPERVISOR:
SMPL PROG: I-SWM INORG OBSRVATNS: SMPL PERIOD: 09/33 FUND CODE:

ANALYSIS ID	SUB	MD	STORET DESCRIPTION	UNITS	RESULT	DRINK WTR STANDARDS	RAW WTR STANDARDS	TRIGGER LEVEL
		00095	CONDUCTIVITY(EC)-LABCUMHOS/CM @ 25 C		970.000			
		00403	PH LABORATORY UNITS		7.600			
		00041	ALKALINITY,TOTAL MG/L AS CACO3		398.000			
		00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.520			
		00630	NITRATE & NITRITE TOTAL MG/L AS N		0.100 <	10.000		
		00720	CYANIDE,TOTAL MG/L AS CN		0.005 <	0.200		
		00900	HARDNESS,EDTA MG/L AS CACO3		264.000			
		00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		65.000			
		00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		25.500			
		00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		19.000			
		00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		11.000			
		00940	CHLORIDE,TOTAL MG/L AS CL		4.500			
		00945	SULFATE,TOTAL MG/L AS SO4		19.000			
		00951	FLUORIDE,TOTAL MG/L AS F		0.700	4.000		
		00956	SILICA,TOTAL MG/L AS SIO2		7.000			
		01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS		1.000 <	50.000		
		01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		1940.000	1000.000*		
		01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		0.500 <			
		01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		270.000			
		01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB		3.000 <	10.000		
		01030	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB		5.000 <	50.000		
		01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP		5.000 <			
		01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP		3.000 <	5000.000		
		01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP		270.000	1000.000		
		01051	LEAD,TOTAL RECOVERABLE UG/L AS PB		5.000 <	50.000		
		01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP		5.000 <	150.000		
		01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP		3.000			
		01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP		5.000 <	50.000		
		01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP		2850.000			
		01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP		4.000 <			
		01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP		19.000	5000.000		
		01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE		1.000 <	10.000		
		70295	RESIDUE,NON-FILTRABLE (TSS) DRIED AT 103-105C MG/L		220.000			
		70304	TOTAL DISSOLVED SOLIDS MG/L BY EC		340.000			
		71900	MERCURY,TOTAL MG/L AS HG		0.200 <	2.000		

SAMPLE ID: 71 3697 LOCATION: WELL COLL DATE: 09/26/86 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR LAB RCVD: 00/00/00 RECEIVED BY:
SMPL PURP: 5-SPEC/OTHR COMMENTS: LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PROG: V-VOC OBSRVATNS: SMPL PERIOD: 09/86 FUND CODE:

FACILITY: 0894830 ST CHARLES *** CONTINUED ***

ANALYSIS ID	PCLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	32101	BROMODICHLOROMETHANE UG/L GC/MS		1.000 <			
0000001	002	32102	CARBON TETRACHLORIDE UG/L GC/MS		1.000 <	5.000		
0000001	003	32103	1,2-DICHLOROETHANE UG/L		1.000 <	5.000		
0000001	004	32104	BROMOFORM UG/L GC/MS		1.000 <			
0000001	005	32105	DIBROMOCHLOROMETHANE UG/L GC/MS		1.000 <			
0000001	006	32106	CHLOROFORM UG/L GC/MS		1.000 <			
0000001	007	34010	TOLUENE UG/L		1.000 <	1000.000		
0000001	008	34030	BENZENE UG/L		1.000 <	5.000		
0000001	009	34301	CHLOROBENZENE UG/L		1.000 <	100.000		
0000001	010	34371	ETHYLBENZENE UG/L		1.000 <	700.000		
0000001	011	34423	METHYLENE CHLORIDE UG/L		1.000 <	5.000		
0000001	012	34475	TETRACHLOROETHYLENE UG/L GC/MS		1.000 <	5.000		
0000001	013	34496	1,1-DICHLOROETHANE UG/L GC/MS		1.000 <			
0000001	014	34501	1,1-DICHLOROETHYLENE UG/L GC/MS		1.000 <	7.000		
0000001	015	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS		1.000 <	200.000		
0000001	016	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS		1.000 <	100.000		
0000001	017	39180	TRICHLOROETHYLENE UG/L		1.000 <	5.000		
0000001	018	00010	WATER TEMPERATURE DEG C		13.500			
0000001	019	00059	FLOW (PUMPING) RATE GAL/MIN		752.000			
0000001	020	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS		97.000			
0000001	021	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C		1335.000			
0000001	022	00400	PH PH UNITS		7.200			
0000001	023	00410	ALKALINITY,TOTAL MG/L AS CACO3		309.000			
0000001	024	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN		100.000			
0000001	025	72019	DEPTH FROM LAND SURFACE TO WATER SURFACE		651.000			
0000001	026	90410			309.000			

FACILITY: 0894830 ST CHARLES STATUS: A PUBLIC: Y COMM: Y TYPE WATER: G
TAP: 01 WELL 3 STATUS: A
RAW SRC: 20102 WELL 6 INTERSECTION OF 4TH & MOODY STS STATUS: A

SAMPLE NO: B91373900 LOCATION: ST CHARLES WELL 6 COLL DATE: 09/20/89 DELIVERED BY: UPS
SMPL TYPE: RAW COLLECTOR: MF LAB RCVD: 09/21/89 RECEIVED BY: PMD
SMPL PURP: 1-ROUTINE COMMENTS: LAB COMPL: 11/02/89 LAB SUPERVISOR: RPF
SMPL PROG: C-CHEMICAL OBSRVATNS: SMPL PERIOD: 09/89 FUND CODE: PW30

ANALYSIS ID	PCLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
100T000	001	00403	PH LABORATORY UNITS	UNITS	7.800			
101T000	001	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C	UM/CM	590.000			
102T000	001	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L	MG/L	328.000			
103T000	001	00410	ALKALINITY,TOTAL MG/L AS CACO3	MG/L	305.000			
105T000	001	00900	HARDNESS,EDTA MG/L AS CACO3	MG/L	246.000			
107T000	001	00951	FLUORIDE,TOTAL MG/L AS F	MG/L	0.940	4.000		
108T000	001	00940	CHLORIDE,TOTAL MG/L AS CL	MG/L	4.100			
109T000	001	00945	SULFATE,TOTAL MG/L AS SO4	MG/L	21.000			

FACILITY: 0894830 ST CHARLES *** CONTINUED ***

110T000	001	00630	NITRATE & NITRITE TOTAL MG/L AS N	MG/L	0.100 <	10.000	
111T000	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N	MG/L	0.610		
114T000	001	00956	SILICA,TOTAL MG/L AS SIO2	MG/L	6.900		
116T000	001	00720	CYANIDE,TOTAL MG/L AS CN	MG/L	0.005 <	0.200	
144T000	001	01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS	UG/L	1.000 <	50.000	
151T100	001	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB	UG/L	5.000 <	50.000	
153T000	001	71900	MERCURY,TOTAL UG/L AS HG	UG/L	0.050 <	2.000	
155T000	001	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE	UG/L	1.000 <	10.000	
177T100	001	00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	62.000		
177T100	002	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	24.000		
177T100	003	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP	MG/L	25.000		
177T100	004	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP	MG/L	11.000		
177T100	005	01105	ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP	UG/L	50.000 <		
177T100	006	01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP	UG/L	575.000	1000.000	
177T100	007	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP	UG/L	350.000		
177T100	008	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP	UG/L	0.500 <		
177T100	009	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB	UG/L	3.000 <	10.000	
177T100	010	01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB	UG/L	5.000 <	50.000	
177T100	011	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	UG/L	12.000	5000.000	
177T100	012	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP	UG/L	5.000 <		
177T100	013	01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP	UG/L	125.000	1000.000	
177T100	014	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	UG/L	5.000 <	150.000	
177T100	015	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	UG/L	5.000 <		
177T100	016	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	UG/L	3.000 <	50.000	
177T100	017	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	UG/L	2685.000		
177T100	018	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP	UG/L	5.000 <		
177T100	019	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	UG/L	50.000 <	5000.000	
177T100	020	82394	HARDNESS, CALC - MG/L	MG/L	251.000		

FACILITY: 0894830 ST CHARLES STATUS: A PUBLIC: Y COMM: Y TYPE WATER: G
TAP: 02 WELL 4 STATUS: A
RAW SRCE: 20100 WELL 4 E OF FOX RVR N OF WELL 3 STATUS: A

SAMPLE NO: B91373500 LOCATION: ST CHARLES WELL 4 COLL DATE: 09/20/89 DELIVERED BY: UPS
SMPL TYPE: RAW COLLECTOR: MF LAB RCVD: 09/21/89 RECEIVED BY: PMD
SMPL PURP: 1-ROUTINE COMMENTS: LAB COMPL: 11/02/89 LAB SUPERVISOR: RPF
SMPL PROG: C-CHEMICAL OBSRVATNS: SMPL PERIOD: 09/89 FUND CODE: PW30

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
100T000	001	00403	PH LABORATORY UNITS	UNITS	7.900			
101T000	001	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C	UM/CM	570.000			
102T000	001	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L	MG/L	341.000			
103T000	001	00410	ALKALINITY,TOTAL MG/L AS CACO3	MG/L	296.000			
105T000	001	00900	HARDNESS,EDTA MG/L AS CACO3	MG/L	246.000			
107T100	001	00951	FLUORIDE,TOTAL MG/L AS F	MG/L	0.780	4.000		
108T000	001	00940	CHLORIDE,TOTAL MG/L AS CL	MG/L	8.000			
109T000	001	00945	SULFATE,TOTAL MG/L AS SO4	MG/L	18.000			
110T000	001	00630	NITRATE & NITRITE TOTAL MG/L AS N	MG/L	0.100 <	10.000		

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES
SELECTED SAMPLE EXPANDED REPORT

FACILITY: 2086030 ST CHARLES *** CONTINUED ***

111T000	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N	MG/L	0.540		
114T000	001	00956	SILICA,TOTAL MG/L AS SIO2	MG/L	7.100		
116T000	001	00720	CYANIDE,TOTAL MG/L AS CN	MG/L	0.005 <	0.200	
144T000	001	01002	ARSENIC,TOTAL RECOVERABLE UG/L AS AS	UG/L	1.000 <	50.000	
151T100	001	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB	UG/L	5.000 <	50.000	
153T000	001	71900	MERCURY,TOTAL UG/L AS HG	UG/L	0.060	2.000	
155T000	001	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE	UG/L	1.000 <	10.000	
177T100	001	00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	64.000		
177T100	002	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	25.000		
177T100	003	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP	MG/L	20.000		
177T100	004	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP	MG/L	10.000		
177T100	005	01105	ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP	UG/L	223.000		
177T100	006	01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP	UG/L	3055.000	1000.000*	
177T100	007	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP	UG/L	254.000		
177T100	008	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP	UG/L	3.500 <		
177T100	009	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB	UG/L	3.000 <	10.000	
177T100	010	01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB	UG/L	5.000 <	50.000	
177T100	011	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	UG/L	5.000 <	5000.000	
177T100	012	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP	UG/L	5.000 <		
177T100	013	01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP	UG/L	413.000	1000.000	
177T100	014	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	UG/L	28.000	150.000	
177T100	015	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	UG/L	5.000 <		
177T100	016	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	UG/L	3.000 <	50.000	
177T100	017	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	UG/L	2534.000		
177T100	018	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP	UG/L	5.000 <		
177T100	019	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	UG/L	50.000 <	5000.000	
177T100	2	32594	HARDNESS, CALC - MG/L	MG/L	262.000		

SAMPLE NO: Z003606 LOCATION: WELL COLL DATE: 09/26/86 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR LAB RCVD: 00/00/00 RECEIVED BY:
SMPL PURP: 5-SPEC/OTHR COMMENTS: LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PROG: I-GWM INORG OBSRVATNS: SMPL PERIOD: 09/86 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.420			
0000001	002	00630	NITRATE & NITRITE TOTAL MG/L AS N		0.100 <	10.000		
0000001	003	00665	PHOSPHORUS, TOTAL MG/L AS P		0.030			
0000001	004	00720	CYANIDE,TOTAL MG/L AS CN		0.010 <	0.200		
0000001	005	00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		62.000			
0000001	006	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		22.000			
0000001	007	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		18.000			
0000001	008	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		8.700			
0000001	009	00940	CHLORIDE,TOTAL MG/L AS CL		7.700			
0000001	010	00945	SULFATE,TOTAL MG/L AS SO4		13.000			
0000001	011	00951	FLUORIDE,TOTAL MG/L AS F		0.810	4.000		
0000001	012	00956	SILICA,TOTAL MG/L AS SIO2		7.000			
0000001	013	01002	ARSENIC,TOTAL RECOVERABLE UG/L AS AS		1.000 <	50.000		
0000001	014	01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		2240.000	1000.000*		

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES
SELECTED SAMPLE EXPANDED REPORT

FACILITY: 0894830 ST CHARLES *** CONTINUED ***

0000001	015	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP	0.500	<	
0000001	016	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP	240.000		
0000001	017	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICP	3.000	<	10.000
0000001	018	01034	CHROMIUM,TOTAL RECOVERABLE UG/L AS CR ANAL BY ICP	5.000	<	50.000
0000001	019	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP	5.000	<	
0000001	020	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	5.000	<	5000.000
0000001	021	01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP	134.000		1000.000
0000001	022	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB	5.000	<	50.000
0000001	023	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	5.000	<	150.000
0000001	024	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	5.000	<	
0000001	025	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	3.000	<	50.000
0000001	026	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	2370.000		
0000001	027	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP	5.000	<	
0000001	028	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	50.000	<	5000.000
0000001	029	01105	ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP	50.000	<	
0000001	030	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE	1.000	<	10.000
0000001	031	32730	PHENOLS, TOTAL RECOVERABLE UG/L	5.000	<	
0000001	032	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L	483.000		
0000001	033	71900	MERCURY,TOTAL UG/L AS HG	0.050	<	2.000
0000001	034	00010	WATER TEMPERATURE DEG C	14.000		
0000001	035	00059	FLOW (PUMPING) RATE GAL/MIN	916.000		
0000001	036	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS	69.000		
0000001	037	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C	1475.000		
0000001	038	00400	PH PH UNITS	7.300		
0000001	039	00410	ALKALINITY,TOTAL MG/L AS CACO3	297.000		
0000001	040	72004	FLOW (PUMPING) TIME PRIOR TO S... MG MIN	85.000		
0000001	041	90410		297.000		

SAMPLE NO: 9011466 LOCATION: WELL #4 COLL DATE: 09/14/83 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: P MARSCHINKE LAB RCVD: 10/19/83 RECEIVED BY:
SMPL PURP: 1-ROUTINE COMMENTS: LAB COMPL: LAB SUPERVISOR:
SMPL PROG: I-GWM INORG OBSRVATNS: SMPL PERIOD: 09/83 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
		00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C		560.000			
		00403	PH LABORATORY UNITS		7.800			
		00410	ALKALINITY,TOTAL MG/L AS CACO3		297.000			
		00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.460			
		00630	NITRATE & NITRITE TOTAL MG/L AS N		0.100	< 10.000		
		00720	CYANIDE,TOTAL MG/L AS CN		0.005	< 0.200		
		00900	HARDNESS,EDTA MG/L AS CACO3		255.000			
		00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		64.000			
		00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		25.200			
		00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		10.000			
		00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		11.000			
		00940	CHLORIDE,TOTAL MG/L AS CL		9.000			
		00945	SULFATE,TOTAL MG/L AS SO4		12.000			
		00951	FLUORIDE,TOTAL MG/L AS F		0.800	4.000		

FACILITY: 0894830 ST CHARLES *** CONTINUED ***

00956	SILICA,TOTAL MG/L AS SIO2	7.000	
01002	ARSENIC,TOTAL RECOVERABLE UG/L AS AS	1.000 <	50.000
01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP	2740.000	1000.000*
01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP	1.000 <	
01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP	270.000	
01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICP	3.000 <	10.000
01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICP	5.000 <	50.000
01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP	5.000 <	
01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	3.000 <	5000.000
01045	IRON,TOTAL RECOVERABLE UG/L AS FE ANAL BY ICP	100.000	300.000
01051	LEAD,TOTAL RECOVERABLE UG/L AS PB	5.000 <	50.000
01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	5.000 <	150.000
01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	4.000	
01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	5.000 <	50.000
01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	2580.000	
01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP	4.000 <	
01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	12.000	5000.000
01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE	1.000 <	10.000
70300	RESIDUE,TOTAL FILTERABLE (180 C),MG/L	332.000	
70304	TOTAL DISSOLVED SOLIDS MG/L BY EC	340.000	
71900	MERCURY,TOTAL UG/L AS HG	2.100 <	2.000

SAMPLE NO: Z003605 LOCATION: WELL COLL DATE: 09/26/86 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR LAB RCVD: 00/00/00 RECEIVED BY:
SMPL PURP: 5-SPEC/OTHR COMMENTS: LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PROG: V-VOC OBSRVATNS: SMPL PERIOD: 09/86 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	32101	BROMODICHLOROMETHANE UG/L CG/MS		1.000 <			
0000001	002	32102	CARBON TETRACHLORIDE UG/L CG/MS		1.000 <	5.000		
0000001	003	32103	1,2-DICHLOROETHANE UG/L		1.000 <	5.000		
0000001	004	32104	BROMOFORM UG/L CG/MS		1.000 <			
0000001	005	32105	DIBROMOCHLOROMETHANE UG/L GC/MS		1.000 <			
0000001	006	32106	CHLOROFORM UG/L GC/MS		1.000 <			
0000001	007	34010	TOLUENE UG/L		1.000 <	1000.000		
0000001	008	34030	BENZENE UG/L		1.000 <	5.000		
0000001	009	34301	CHLOROBENZENE UG/L		1.000 <	100.000		
0000001	010	34371	ETHYLBENZENE UG/L		1.000 <	700.000		
0000001	011	34423	METHYLENE CHLORIDE UG/L		1.000 <	5.000		
0000001	012	34475	TETRACHLOROETHYLENE UG/L GC/MS		1.000 <	5.000		
0000001	013	34496	1,1-DICHLOROETHANE UG/L GC/MS		1.000 <			
0000001	014	34501	1,1-DICHLOROETHYLENE UG/L GC/MS		1.000 <	7.000		
0000001	015	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS		1.000 <	200.000		
0000001	016	34541	1,2-DICHLOROETHYLENE UG/L GC/MS		1.000 <	100.000		
0000001	017	39180	TRICHLOROETHYLENE UG/L		1.000 <	5.000		
0000001	018	00010	WATER TEMPERATURE DEG C		14.000			
0000001	019	00059	FLOW (PUMPING) RATE GAL/MIN		916.000			
0000001	020	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS		69.000			

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FACILITY: 3894830 ST CHARLES *** CONTINUED ***

0000001	021	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C	1475.000
0000001	022	00403	PH PH UNITS	7.300
0000001	023	00410	ALKALINITY,TOTAL MG/L AS CACO3	297.000
0000001	024	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN	35.000
0000001	025	90410		297.000

FACILITY: 3894830 ST CHARLES STATUS: A PUBLIC: Y COMM: Y TYPE WATER: G

TAP: 03 WELL 5 STATUS: A

RAW SRCE: 20101 WELL 5 3RD & BOWMAN STATUS: A

SAMPLE NO: B91373100 LOCATION: ST CHARLES WELL 5 COLL DATE: 09/20/89 DELIVERED BY: UPS

SMPL TYPE: RAW COLLECTOR: MF LAB RCVD: 09/21/89 RECEIVED BY: PMD

SMPL PURP: 1-ROUTINE COMMENTS: LAB COMPL: 11/02/89 LAB SUPERVISOR: RPF

SMPL PROG: C-CHEMICAL OBSRVATNS: SMPL PERIOD: 09/89 FUND CODE: PW30

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT		DRINK WTR	RAW WTR	TRIGGER LEVEL
100T000	001	00403	PH LABORATORY UNITS	UNITS	7.800				
101T000	001	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C	UM/CM	590.000				
102T000	001	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L	MG/L	342.000				
103T000	001	00410	ALKALINITY,TOTAL MG/L AS CACO3	MG/L	312.000				
105T000	001	00900	HARDNESS,EDTA MG/L AS CACO3	MG/L	251.000				
107T000	001	00951	FLUORIDE,TOTAL MG/L AS F	MG/L	0.880		4.000		
108T000	001	00940	CHLORIDE,TOTAL MG/L AS CL	MG/L	4.900				
109T000	001	00945	SULFATE,TOTAL MG/L AS SO4	MG/L	24.000				
110T000	001	00630	NITRATE & NITRITE TOTAL MG/L AS N	MG/L	0.100	<	10.000		
111T000	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N	MG/L	0.600				
114T000	001	00956	SILICA,TOTAL MG/L AS SIO2	MG/L	7.000				
116T000	001	00720	CYANIDE,TOTAL MG/L AS CN	MG/L	0.005	<	0.200		
144T000	001	01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS	UG/L	1.000	<	50.000		
151T100	001	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB	UG/L	5.000	<	50.000		
153T000	001	71900	MERCURY,TOTAL UG/L AS HG	UG/L	0.050	<	2.000		
155T000	001	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE	UG/L	1.000	<	10.000		
177T100	001	00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	63.000				
177T100	002	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	24.000				
177T100	003	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP	MG/L	24.000				
177T100	004	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP	MG/L	11.000				
177T100	005	01105	ALUMINUM,TOTAL RECOVERABLE UG/L AS AL ANAL BY ICP	UG/L	50.000	<			
177T100	006	01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP	UG/L	775.000		1000.000		
177T100	007	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP	UG/L	338.000				
177T100	008	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP	UG/L	0.500	<			
177T100	009	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB	UG/L	3.000	<	10.000		
177T100	010	01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB	UG/L	5.000	<	50.000		
177T100	011	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	UG/L	5.000	<	5000.000		
177T100	012	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP	UG/L	5.000	<			
177T100	013	01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP	UG/L	96.000		1000.000		
177T100	014	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	UG/L	5.000		150.000		
177T100	015	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	UG/L	5.000	<			
177T100	016	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	UG/L	3.000	<	50.000		

FACILITY: 0894830 ST CHARLES *** CONTINUED ***

177T100	017	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	UG/L	2714.000		
177T100	018	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP	UG/L	5.000 <		
177T100	019	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	UG/L	50.000 <	5000.000	
177T			ARDNESS, CALC -MG/L	MG/L	25		

SAMPLE NO: 2003578 LOCATION: WELL COLL DATE: 09/26/86 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR LAB RCVD: 00/00/00 RECEIVED BY:
SMPL PURP: 5-SPEC/OTHR COMMENTS: LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PROG: I-GWM INORG OBSRVATNS: SMPL PERIOD: 09/86 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.460			
0000001	002	00630	NITRATE & NITRITE TOTAL MG/L AS N		0.100 <	10.000		
0000001	003	00665	PHOSPHORUS, TOTAL MG/L AS P		0.030			
0000001	004	00720	CYANIDE,TOTAL MG/L AS CN		0.010 <	0.200		
0000001	005	00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		62.000			
0000001	006	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		23.000			
0000001	007	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		24.000			
0000001	008	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		9.400			
0000001	009	00940	CHLORIDE,TOTAL MG/L AS CL		4.900			
0000001	010	00945	SULFATE,TOTAL MG/L AS SO4		20.000			
0000001	011	00951	FLUORIDE,TOTAL MG/L AS F		0.960	4.000		
0000001	012	00956	SILICA,TOTAL MG/L AS SIO2		15.000			
0000001	013	01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS		1.000 <	50.000		
0000001	014	01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		681.000	1000.000		
0000001	015	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		0.500 <			
0000001	016	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		329.000			
0000001	017	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB		3.000 <	10.000		
0000001	018	01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB		5.000 <	50.000		
0000001	019	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP		5.000 <			
0000001	020	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP		5.000 <	5000.000		
0000001	021	01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP		144.000	1000.000		
0000001	022	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB		5.000 <	50.000		
0000001	023	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP		5.000 <	150.000		
0000001	024	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP		5.000 <			
0000001	025	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP		3.000 <	50.000		
0000001	026	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP		2620.000			
0000001	027	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP		5.000 <			
0000001	028	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP		50.000 <	5000.000		
0000001	029	01105	ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP		50.000 <			
0000001	030	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE		1.000 <	10.000		
0000001	031	32730	PHENOLS, TOTAL RECOVERABLE UG/L		5.000 <			
0000001	032	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L		702.000			
0000001			L UG/L AS HG		1.00	2.00		
0000001	034	00010	WATER TEMPERATURE DEG C		13.000			
0000001	035	00059	FLOW (PUMPING) RATE GAL/MIN		1000.000			
0000001	036	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C		1200.000			
0000001	037	00400	PH PH UNITS		7.200			

FACILITY: 0894830 ST CHARLES *** CONTINUED ***

0000001	038	00410	ALKALINITY,TOTAL MG/L AS CACO3	312.000	
0000001	039	72084	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN	90.000	
0000001	040	72019	DEPTH FROM LAND SURFACE TO WATER SURFACE	540.000	
0000001	041	90410		312.000	

SAMPLE NO: 8011468 LOCATION: WELL #5 COLL DATE: 09/16/83 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: P MARSCHINKE LAB RCVD: 10/19/83 RECEIVED BY:
SMPL PURP: 1-ROUTINE COMMENTS: LAB COMPL: LAB SUPERVISOR:
SMPL PROG: I-GWM INORG OBSRVATNS: SMPL PERIOD: 09/83 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT		STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
		00095	CONDUCTIVITY(EC)-LABCUMHOS/CM @ 25 C		590.000				
		00403	PH LABORATORY UNITS		7.600				
		00410	ALKALINITY,TOTAL MG/L AS CACO3		314.000				
		00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.360				
		00630	NITRATE & NITRITE TOTAL MG/L AS N		0.100	<	10.000		
		00720	CYANIDE,TOTAL MG/L AS CN		0.005	<	0.200		
		00900	HARDNESS,EDTA MG/L AS CACO3		261.000				
		00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		64.000				
		00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		26.000				
		00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		28.000				
		00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		13.000				
		00940	CHLORIDE,TOTAL MG/L AS CL		3.000				
		00945	SULFATE,TOTAL MG/L AS SO4		15.000				
		00951	FLUORIDE,TOTAL MG/L AS F		0.900		4.000		
		00956	SILICA,TOTAL MG/L AS SIO2		6.500				
		01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS		1.000	<	50.000		
		01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		1140.000		1000.000		
		01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		0.500	<			
		01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		380.000				
		01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB		3.000	<	10.000		
		01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB		5.000	<	50.000		
		01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP		5.000	<			
		01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP		3.000	<	5000.000		
		01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP		30.000		1000.000		
		01051	LEAD,TOTAL RECOVERABLE UG/L AS PB		5.000	<	50.000		
		01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP		5.000	<	150.000		
		01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP		6.000				
		01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP		5.000	<	50.000		
		01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP		3290.000				
		01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP		4.000	<			
		01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP		20.000		5000.000		
		01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE		2.000	<	10.000		
		70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L		322.000				
		70304	TOTAL DISSOLVED SOLIDS MG/L BY EC		350.000				
		71900	MERCURY,TOTAL UG/L AS HG		0.100	<	2.000		

SAMPLE NO: Z003577 LOCATION: WELL COLL DATE: 09/26/86 DELIVERED BY:

FACILITY: 0894830 ST CHARLES *** CONTINUED ***

SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR LAB RCVD: 00/00/00 RECEIVED BY:
SMPL PUR[illegible] COMMENTS: LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PROG: V-VOC OBSRVATNS: SMPL PERIOD: 09/86 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	32101	BROMODICHLOROMETHANE UG/L CG/MS		1.000 <			
0000001	002	32102	CARBON TETRACHLORIDE UG/L CG/MS		1.000 <	5.000		
0000001	003	32103	1,2-DICHLOROETHANE UG/L		1.000 <	5.000		
0000001	004	32104	BROMOFORM UG/L CG/MS		1.000 <			
0000001	005	32105	DIBROMOCHLOROMETHANE UG/L GC/MS		1.000 <			
0000001	006	32106	CHLOROFORM UG/L GC/MS		1.000 <			
0000001	007	34010	TOLUENE UG/L		1.000 <	1000.000		
0000001	008	34030	BENZENE UG/L		1.000 <	5.000		
0000001	009	34301	CHLOROBENZENE UG/L		1.000 <	100.000		
0000001	010	34371	ETHYLBENZENE UG/L		1.000 <	700.000		
0000001	011	34423	METHYLENE CHLORIDE UG/L		1.000 <	5.000		
0000001	012	34475	TETRACHLOROETHYLENE UG/L GC/MS		1.000 <	5.000		
0000001	013	34496	1,1-DICHLOROETHANE UG/L GC/MS		1.000 <			
0000001	014	34501	1,1-DICHLOROETHYLENE UG/L GC/MS		1.000 <	7.000		
0000001	015	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS		1.000 <	200.000		
0000001	016	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS		1.000 <	100.000		
0000001	017	39180	TRICHLOROETHYLENE UG/L		1.000 <	5.000		
0000001	018	00010	WATER TEMPERATURE DEG C		13.000			
0000001	019	00059	FLOW (PUMPING) RATE GAL/MIN		1000.000			
0000001	020	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C		1200.000			
0000001	021	00400	PH PH UNITS		7.200			
0000001	022	00410	ALKALINITY,TOTAL MG/L AS CACO3		312.000			
0000001	023	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN		90.000			
0000001	024	72019	DEPTH FROM LAND SURFACE TO WATER SURFACE		540.000			
0000001	025	90410			312.000			

FACILITY: 0894830 ST CHARLES STATUS: A PUBLIC: Y COMM: Y TYPE WATER: G
TAP: 04 WELL 7 STATUS: A
RAW SRCE: 20103 WELL 7 RANDALL RD BLK N OF MAIN STATUS: A

SAMPLE NO: B91372500 LOCATION: ST CHARLES COLL DATE: 09/20/89 DELIVERED BY: UPS
SMPL TYPE: RAW COLLECTOR: MF LAB RCVD: 09/21/89 RECEIVED BY: PMD
SMPL PURP: 1-ROUTINE COMMENTS: LAB COMPL: 11/02/89 LAB SUPERVISOR: RPF
SMPL PROG: C-CHEMICAL OBSRVATNS: SMPL PERIOD: 09/89 FUND CODE: PW30

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
100T000	001	00403	PH LABORATORY UNITS	UNITS	7.800			
101T000	001	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C	UM/CM	800.000			
102T000	001	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L	MG/L	497.000			
103T000	001	00410	ALKALINITY,TOTAL MG/L AS CACO3	MG/L	305.000			
105T000	001	00900	HARDNESS,EDTA MG/L AS CACO3	MG/L	412.000			

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
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FACILITY: 0894830 ST CHARLES *** CONTINUED ***

107T000	001	00951	FLUORIDE,TOTAL MG/L AS F	MG/L	0.190	4.000	
108T000	001	00940	CHLORIDE,TOTAL MG/L AS CL	MG/L	29.000		
109T000	001	00945	SULFATE,TOTAL MG/L AS SO4	MG/L	102.000		
110T000	001	00671	PHOSPHORUS,TOTAL MG/L AS P	MG/L	0.100	< 10.000	
111T000	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N	MG/L	0.240		
114T000	001	00956	SILICA,TOTAL MG/L AS SIO2	MG/L	15.000		
116T000	001	00720	CYANIDE,TOTAL MG/L AS CN	MG/L	0.005	< 0.200	
144T000	001	01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS	UG/L	1.000	< 50.000	
151T100	001	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB	UG/L	5.000	< 50.000	
153T000	001	71900	MERCURY,TOTAL UG/L AS HG	UG/L	0.050	< 2.000	
155T000	001	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE	UG/L	1.000	< 10.000	
177T100	001	00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	92.000		
177T100	002	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	47.000		
177T100	003	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP	MG/L	12.000		
177T100	004	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP	MG/L	0.430		
177T100	005	01105	ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP	UG/L	60.000		
177T100	006	01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP	UG/L	116.000	1000.000	
177T100	007	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP	UG/L	50.000	<	
177T100	008	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP	UG/L	0.500	<	
177T100	009	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB	UG/L	3.000	< 10.000	
177T100	010	01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB	UG/L	5.000	< 50.000	
177T100	011	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	UG/L	5.000	< 5000.000	
177T100	012	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP	UG/L	5.000	<	
177T100	013	01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP	UG/L	2210.000	1000.000*	
177T100	014	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	UG/L	43.000	150.000	
177T100	015	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	UG/L	5.000	<	
177T100	016	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	UG/L	3.000	< 50.000	
177T100	017	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	UG/L	366.000		
177T100	018	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP	UG/L	5.000	<	
177T100	019	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	UG/L	50.000	< 5000.000	
177T100	020	82394	HARDNESS, CALC - MG/L	MG/L	423.000		

SAMPLE NO: Z003593 LOCATION: WELL COLL DATE: 11/13/85 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR LAB RCVD: 00/00/00 RECEIVED BY:
SMPL PURP: 5-SPEC/OTHR COMMENTS: LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PROG: I-GWM INORG OBSRVATNS: SMPL PERIOD: 11/85 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.180			
0000001	002	00630	NITRATE & NITRITE TOTAL MG/L AS N		0.100	< 10.000		
0000001	003	00665	PHOSPHORUS, TOTAL MG/L AS P		0.010			
0000001	004	00720	CYANIDE,TOTAL MG/L AS CN		0.010	< 0.200		
0000001	005	00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		79.000			
0000001	006	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		43.000			
0000001	007	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		8.700			
0000001	008	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		1.200			
0000001	009	00940	CHLORIDE,TOTAL MG/L AS CL		27.000			
0000001	010	00945	SULFATE,TOTAL MG/L AS SO4		102.000			

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FACILITY: 0894830 ST CHARLES *** CONTINUED ***

0000001	011	00951	FLUORIDE,TOTAL MG/L AS F	0.230		4.000
0000001	012	00956	SILICA,TOTAL MG/L AS SIO2	16.000		
0000001	013	00956	SILICA,TOTAL MG/L AS SIO2	16.000		
0000001	014	01002	ARSENIC,TOTAL RECOVERABLE UG/L AS AS	1.000	<	50.000
0000001	015	01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP	114.000		1000.000
0000001	016	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP	0.500	<	
0000001	017	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP	50.000	<	
0000001	018	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICP	3.000	<	10.000
			CHROMIUM,TOTAL RECOVERABLE UG/L AS CR ANAL BY ICP		<	50.000
0000001	020	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP	5.000	<	
0000001	021	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	5.000	<	5000.000
0000001	022	01045	IRON,TOTAL RECOVERABLE, UG/L AS FE ANAL BY ICP	1781.000		1000.000*
0000001	023	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB	5.000	<	50.000
0000001	024	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	32.000		150.000
0000001	025	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	5.000	<	
0000001	026	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	3.000	<	50.000
0000001	027	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	341.000		
0000001	028	01087	VANADIUM,TOTAL RECOVERABLE UG/L AS V ANAL BY ICP	5.000	<	
0000001	029	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	50.000	<	5000.000
0000001	030	01105	ALUMINUM,TOTAL RECOVERABLE UG/L AS AL ANAL BY ICP	50.000	<	
0000001	031	01147	SELENIUM,TOTAL RECOVERABLE UG/L AS SE	1.000	<	10.000
0000001	032	32730	PHENOLS, TOTAL RECOVERABLE UG/L	5.000	<	
0000001	033	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L	510.000		
0000001	034	71900	MERCURY,TOTAL UG/L AS HG	0.010	<	2.000
0000001	035	00010	WATER TEMPERATURE DEG C	10.500		
0000001	036	00059	FLOW (PUMPING) RATE GAL/MIN	1800.000		
0000001	037	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS	134.000-		
0000001	038	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C	670.000		
0000001	039	00400	PH PH UNITS	7.300		
0000001	040	00410	ALKALINITY,TOTAL MG/L AS CACO3	308.000		
0000001	041	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN	80.000		
0000001	042	90410		290.000		

SAMPLE NO: 8021546 LOCATION: WELL #7 COLL DATE: 11/29/83 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: R GILLIS LAB RCVD: 01/17/84 RECEIVED BY:
SMPL PURP: 1-ROUTINE COMMENTS: LAB COMPL: LAB SUPERVISOR:
SMPL PROG: I-GWM INORG OBSRVATNS: SMPL PERIOD: 11/83 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
		00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C		810.000			
		00403	PH LABORATORY UNITS		7.500			
		00410	ALKALINITY,TOTAL MG/L AS CACO3		300.000			
		00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.110			
		00630	NITRATE & NITRITE TOTAL MG/L AS N		0.100 <	10.000		
		00720	CYANIDE,TOTAL MG/L AS CN		0.005 <	0.200		
		00900	HARDNESS,EDTA MG/L AS CACO3		430.000			
		00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		88.000			
		00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		47.500			

FACILITY: 0894830 ST CHARLES *** CONTINUED ***

	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP	13.000		
	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP	1.400		
	00940	CHLORIDE,TOTAL MG/L AS CL	25.000		
	00945	SULFATE,TOTAL MG/L AS SO4	104.000		
	00951	FLUORIDE,TOTAL MG/L AS F	0.220	4.000	
	00956	SILICA,TOTAL MG/L AS SIO2	16.000		
	01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS	1.000 <	50.000	
	01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP	106.000	1000.000	
	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP	0.500 <		
	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP	50.000 <		
	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB	3.000 <	10.000	
	01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB	5.000 <	50.000	
	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP	5.000 <		
	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	5.000 <	5000.000	
	01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP	2100.000	1000.000*	
	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB	5.000 <	50.000	
	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	33.000	150.000	
	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	10.000 <		
	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	5.000 <	50.000	
	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	398.000		
	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP	5.000 <		
	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	5.000 <	5000.000	
	01105	ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP	50.000 <		
	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE	1.000	10.000	
	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L	472.000		
	70304	TOTAL DISSOLVED SOLIDS MG/L BY EC	490.000		
	71900	MERCURY,TOTAL UG/L AS HG	0.100 <	2.000	

SAMPLE NO: Z003592 LOCATION: WELL COLL DATE: 11/13/85 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR LAB RCVD: 00/00/00 RECEIVED BY:
SMPL PURP: 5-SPEC/OTHR COMMENTS: LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PROG: Y-VOC OBSRVATNS: SMPL PERIOD: 11/85 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	32101	BROMODICHLOROMETHANE UG/L CG/MS		1.000 <			
0000001	002	32102	CARBON TETRACHLORIDE UG/L CG/MS		1.000 <	5.000		
0000001	003	32103	1,2-DICHLORDETHANE UG/L		1.000 <	5.000		
0000001	004	32104	BROMOFORM UG/L CG/MS		1.000 <			
0000001	005	32105	DIBROMOCHLOROMETHANE UG/L GC/MS		1.000 <			
0000001	006	32106	CHLOROFORM UG/L GC/MS		1.000 <			
0000001	007	34010	TOLUENE UG/L		1.000 <	1000.000		
0000001	008	34030	BENZENE UG/L		1.000 <	5.000		
0000001	009	34301	CHLOROBENZENE UG/L		1.000 <	100.000		
0000001	010	34371	ETHYLBENZENE UG/L		1.000 <	700.000		
0000001	011	34423	METHYLENE CHLORIDE UG/L		1.000 <	5.000		
0000001	012	34475	TETRACHLOROETHYLENE UG/L GC/MS		1.000 <	5.000		
0000001	013	34496	1,1,1-TRICHLOROETHANE UG/L GC/MS		1.000 <			
0000001	014	34501	1,1-DICHLORDETHYLENE UG/L GC/MS		1.000 <	7.000		

FACILITY: 0894830 ST CHARLES *** CONTINUED ***

0000001	015	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS	1.000 <	200.000
0000001	016	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS	1.000 <	100.000
0000001	017	39180	TRICHLOROETHYLENE UG/L	1.000 <	5.000
0000001	018	00010	WATER TEMPERATURE DEG C	10.500	
0000001	019	00059	FLOW (PUMPING) RATE GAL/MIN	1800.000	
0000001	020	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS	134.000	
0000001	021	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C	670.000	
0000001	022	00400	PH PH UNITS	7.300	
0000001	023	00410	ALKALINITY,TOTAL MG/L AS CACO3	308.000	
0000001	024	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN	80.000	
0000001	025	90410		290.000	

FACILITY: 0894830 ST CHARLES STATUS: A PUBLIC: Y COMM: Y TYPE WATER: G
TAP: 005 WELL 8 STATUS: A
RAW SRCE: 20104 WELL 8 E KIRK .5 MI S HWY 64 STATUS: A

SAMPLE NO: B91373600 LOCATION: ST CHARLES WELL 8 COLL DATE: 09/20/89 DELIVERED BY: UPS
SMPL TYPE: RAW COLLECTOR: MF LAB RCVD: 09/21/89 RECEIVED BY: PMD
SMPL PURP: 1-ROUTINE COMMENTS: LAB COMPL: 11/02/89 LAB SUPERVISOR: RPF
SMPL PROG: C-CHEMICAL OBSRVATNS: SMPL PERIOD: 09/89 FUND CODE: PW30

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
100T000	001	00403	PH LABORATORY UNITS	UNITS	7.900			
101T000	001	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C	UM/CM	630.000			
102T000	001	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L	MG/L	334.000			
103T000	001	00410	ALKALINITY,TOTAL MG/L AS CACO3	MG/L	307.000			
105T000	001	00900	HARDNESS,EDTA MG/L AS CACO3	MG/L	238.000			
107T000	001	00951	FLUORIDE,TOTAL MG/L AS F	MG/L	1.030	4.000		
108T000	001	00940	CHLORIDE,TOTAL MG/L AS CL	MG/L	4.700			
109T000	001	00945	SULFATE,TOTAL MG/L AS SO4	MG/L	36.000			
110T000	001	00630	NITRATE & NITRITE TOTAL MG/L AS N	MG/L	0.100 <	10.000		
111T000	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N	MG/L	0.390			
114T000	001	00956	SILICA,TOTAL MG/L AS SIO2	MG/L	7.000			
116T000	001	00720	CYANIDE,TOTAL MG/L AS CN	MG/L	0.005 <	0.200		
144T000	001	01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS	UG/L	1.000 <	50.000		
151T000	001	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB	UG/L	5.000 <	50.000		
153T000	001	71900	MERCURY,TOTAL UG/L AS HG	UG/L	0.050 <	2.000		
155T000	001	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE	UG/L	1.000 <	10.000		
177T100	001	00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	64.000			
177T100	002	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	25.000			
177T100	003	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP	MG/L	31.000			
177T100	004	01937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP	MG/L	2.000			
177T100	005	01105	ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP	UG/L	50.000 <			
177T100	006	01040	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	UG/L	1.000 <	1000.000		
177T100	007	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP	UG/L	413.000			
177T100	008	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP	UG/L	0.500 <			
177T100	009	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB	UG/L	3.000 <	10.000		
177T100	010	01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB	UG/L	5.000 <	50.000		

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES
SELECTED SAMPLE EXPANDED REPORT

FACILITY: 0894830 ST CHARLES *** CONTINUED ***

177T100	011	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	UG/L	5.000 <	5000.000	
177T100	012	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP	UG/L	5.000 <		
177T100	013	01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP	UG/L	50.000 <	1000.000	
177T100	014	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	UG/L	6.000	150.000	
177T100	015	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	UG/L	5.000 <		
177T100	016	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	UG/L	3.000 <	50.000	
177T100	017	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	UG/L	2936.000		
177T100	018	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP	UG/L	5.000 <		
[illegible]	[illegible]	[illegible]	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	[illegible]	[illegible]	[illegible]	
177T100	W2W	82394	HARDNESS, CALC - MG/L	MG/L	260.000		

SAMPLE NO: Z0035[illegible] LOCATION: WELL COLL DATE: 09/26/86 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR LAB RCVD: 00/00/00 RECEIVED BY:
SMPL PURP: 5-SPEC/OTHR COMMENTS: LAB COMPLT: 00/00/00 LAB SUPERVISOR:
SMPL PROG: I-GWM INORG OBSRVATNS: SMPL PERIOD: 09/86 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.430			
0000001	002	00630	NITRATE & NITRITE TOTAL MG/L AS N		0.100 <	10.000		
0000001	003	00665	PHOSPHORUS, TOTAL MG/L AS P		0.040			
0000001	004	00720	CYANIDE,TOTAL MG/L AS CN		0.010 <	0.200		
0000001	005	00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		62.000			
0000001	006	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		22.000			
0000001	007	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		18.000			
0000001	008	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		8.500			
0000001	009	00940	CHLORIDE,TOTAL MG/L AS CL		7.500			
0000001	010	00945	SULFATE,TOTAL MG/L AS SO4		10.000			
0000001	011	00951	FLUORIDE,TOTAL MG/L AS F		0.810	4.000		
0000001	012	00956	SILICA,TOTAL MG/L AS SIO2		9.400			
0000001	013	01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS		1.000 <	50.000		
0000001	014	01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		2179.000	1000.000*		
0000001	015	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		0.500 <			
0000001	016	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		249.000			
0000001	017	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB		3.000 <	10.000		
0000001	018	01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB		5.000 <	50.000		
0000001	019	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP		5.000 <			
0000001	020	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP		5.000 <	5000.000		
0000001	021	01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP		124.000	1000.000		
0000001	022	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB		5.000 <	50.000		
0000001	023	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP		5.000 <	150.000		
0000001	024	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP		5.000 <			
0000001	025	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP		3.000 <	50.000		
0000001	026	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP		2344.000			
0000001	027	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP		5.000 <			
0000001	028	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP		50.000 <	5000.000		
0000001	029	01105	ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP		50.000 <			
0000001	030	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE		1.000 <	10.000		
0000001	031	32730	PHENOLS, TOTAL RECOVERABLE UG/L		5.000 <			

FACILITY: 0894830 ST CHARLES *** CONTINUED ***

0000001	032	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L	479.000		
0000001	033	71900	MERCURY,TOTAL UG/L AS HG	0.050 <	2.000	
0000001	034	00410	ALKALINITY,TOTAL MG/L AS CACO3	303.000		
0000001	035	90410		303.000		

SAMPLE NO: Z003596 LOCATION: WELL COLL DATE: 09/26/86 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR LAB RCVD: 00/00/00 RECEIVED BY:
SMPL PURP: 9-SPEC/OTHR COMMENTS: LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PROG: 7-GWM INORG OBSERVATNS: SMPL PERIOD: 09/86 FUND CODE:

ANALYSIS ID	PSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	DRINK WTR STANDARDS	RAW WTR STANDARDS	TRIGGER LEVEL
0000001	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.480			
0000001	002	00630	NITRATE & NITRITE TOTAL MG/L AS N		0.100 <	10.000		
0000001	003	00665	PHOSPHORUS, TOTAL MG/L AS P		0.120			
0000001	004	00720	CYANIDE,TOTAL MG/L AS CN		0.010 <	0.200		
0000001	005	00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		63.000			
0000001	006	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		23.000			
0000001	007	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		28.000			
0000001	008	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		11.000			
0000001	009	00940	CHLORIDE,TOTAL MG/L AS CL		4.500			
0000001	010	00945	SULFATE,TOTAL MG/L AS SO4		37.000			
0000001	011	00951	FLUORIDE,TOTAL MG/L AS F		1.050	4.000		
0000001	012	00956	SILICA,TOTAL MG/L AS SIO2		6.800			
0000001	013	01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS		1.000 <	50.000		
0000001	014	01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		176.000	1000.000		
0000001	015	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		0.500 <			
0000001	016	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		360.000			
0000001	017	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB		3.000 <	10.000		
0000001	018	01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB		5.000 <	50.000		
0000001	019	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP		5.000 <			
0000001	020	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP		5.000 <	5000.000		
0000001	021	01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP		57.000	1000.000		
0000001	022	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB		5.000 <	50.000		
0000001	023	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP		5.000	150.000		
0000001	024	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP		5.000 <			
0000001	025	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP		3.000 <	50.000		
0000001	026	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP		3296.000			
0000001	027	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP		5.000 <			
0000001	028	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP		50.000 <	5000.000		
0000001	029	01105	ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP		50.000 <			
0000001	030	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE		1.000 <	10.000		
0000001	031	32730	PHENOLS, TOTAL RECOVERABLE UG/L		5.000 <			
0000001	032	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L		342.000			
0000001	033	71900	MERCURY,TOTAL UG/L AS HG		0.050 <	2.000		
0000001	034	00010	WATER TEMPERATURE DEG C		12.500			
0000001	035	00059	FLOW (PUMPING) RATE GAL/MIN		1200.000			
0000001	036	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS		37.000			
0000001	037	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C		1740.000			

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES
SELECTED SAMPLE EXPANDED REPORT

FACILITY: [illegible] ST CHARLES *** CONTINUED ***

0000001	039	00400	PH PH UNITS	7.400
0000001	039	00410	ALKALINITY,TOTAL MG/L AS CACO3	307.000
0000001	040	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN	65.000
0000001	041	90410		307.000

SAMPLE NO: 8022476 LOCATION: WELL #8 COLL DATE: 10/27/81 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: R GILLIS LAB RCVD: 11/24/81 RECEIVED BY:
SMPL PURP: 1-ROUTINE COMMENTS: LAB COMPL: LAB SUPERVISOR:
SMPL PROG: I-GWM INORG OBSRVATNS: SMPL PERIOD: 10/81 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT		STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
		00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C		600.000				
		00403	PH LABORATORY UNITS		7.300				
		00410	ALKALINITY,TOTAL MG/L AS CACO3		294.000				
		00610	NITROGEN,AMMONIA TOTAL MG/L AS N		390.000				
		00630	NITRATE & NITRITE TOTAL MG/L AS N		0.130		10.000		
		00720	CYANIDE,TOTAL MG/L AS CN		0.005	<	0.200		
		00900	HARDNESS,EDTA MG/L AS CACO3		242.000				
		00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		61.000				
		00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		23.000				
		00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		23.000				
		00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		14.500				
		00940	CHLORIDE,TOTAL MG/L AS CL		4.000				
		00945	SULFATE,TOTAL MG/L AS SO4		32.000				
		00951	FLUORIDE,TOTAL MG/L AS F		1.000		4.000		
		00956	SILICA,TOTAL MG/L AS SIO2		6.800				
		01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS		1.000	<	50.000		
		01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		201.000		1000.000		
		01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		0.500	<			
		01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		380.000				
		01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICP		3.000	<	10.000		
		01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICP		5.000	<	50.000		
		01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP		5.000	<			
		01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP		3.000	<	5000.000		
		01045	IRON,TOTAL RECOVERABLE, UG/L AS FE ANAL BY ICP		32.000		1000.000		
		01051	LEAD,TOTAL RECOVERABLE UG/L AS PB		5.000	<	50.000		
		01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP		5.000	<	150.000		
		01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP		3.000	<			
		01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP		5.000	<	50.000		
		01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP		2910.000				
		01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP		4.000	<			
		01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP		2.000	<	5000.000		
		01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE		1.000	<	10.000		
		70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L		303.000				
		70304	TOTAL DISSOLVED SOLIDS MG/L BY EC		360.000				
		71900	MERCURY,TOTAL UG/L AS HG		0.050	<	2.000		

SAMPLE NO: Z303595 LOCATION: WELL COLL DATE: 09/26/86 DELIVERED BY:

FACILITY: 0894830 ST CHARLES *** CONTINUED ***

SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR LAB RCVD: 00/00/00 RECEIVED BY:
SMPL PURP: 5-SPEC/OTHR COMMENTS: LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PROG: V-VOC OBSRVATNS: SMPL PERIOD: 09/86 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	32101	BROMODICHLOROMETHANE UG/L GC/MS		1.000 <			
0000001	002	32102	CARBON TETRACHLORIDE UG/L GC/MS		1.000 <	5.000		
0000001	003	32103	1,2-DICHLOROETHANE UG/L		1.000 <	5.000		
0000001	004	32104	BROMOFORM UG/L GC/MS		1.000 <			
0000001	005	32105	DIBROMOCHLOROMETHANE UG/L GC/MS		1.000 <			
0000001	006	32106	CHLOROFORM UG/L GC/MS		1.000 <			
0000001	007	34010	TOLUENE UG/L		1.000 <	1000.000		
0000001	008	34030	BENZENE UG/L		1.000 <	5.000		
0000001	009	34301	CHLOROBENZENE UG/L		1.000 <	100.000		
0000001	010	34371	ETHYLBENZENE UG/L		1.000 <	700.000		
0000001	011	34423	METHYLENE CHLORIDE UG/L		1.000 <	5.000		
0000001	012	34475	TETRACHLOROETHYLENE UG/L GC/MS		1.000 <	5.000		
0000001	013	34496	1,1-DICHLOROETHANE UG/L GC/MS		1.000 <			
0000001	014	34501	1,1-DICHLOROETHYLENE UG/L GC/MS		1.000 <	7.000		
0000001	015	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS		1.000 <	200.000		
0000001	016	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS		1.000 <	100.000		
0000001	017	39180	TRICHLOROETHYLENE UG/L		1.000 <	5.000		
0000001	018	00010	WATER TEMPERATURE DEG C		12.500			
0000001	019	00059	FLOW (PUMPING) RATE GAL/MIN		1200.000			
0000001	020	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS		37.000			
0000001	021	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C		1740.000			
0000001	022	00400	PH PH UNITS		7.400			
0000001	023	00410	ALKALINITY,TOTAL MG/L AS CACO3		307.000			
0000001	024	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN		65.000			
0000001	025	81421			307.000			

FACILITY: 0894830 ST CHARLES STATUS: A PUBLIC: Y COMM: Y TYPE WATER: G
TAP: 03 WELL 9 STATUS: A
RAW SRCE: 20105 WELL 9 HWY 25 1/4 MI N COUNTRY CLUB RD STATUS: A

SAMPLE NO: ZC03668 LOCATION: WELL COLL DATE: 02/21/85 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR LAB RCVD: 00/00/00 RECEIVED BY:
SMPL PURP: 5-SPEC/OTHR COMMENTS: LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PROG: 4-GWM PEST OBSRVATNS: SMPL PERIOD: 02/85 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	39023	PHORATE UG/L		0.010 <			
0000001	002	39300	P,P'-DDT UG/L		0.010 <			
0000001	003	39305	O,P'-DDT UG/L		0.010 <			
0000001	004	39310	P,P'-DDD UG/L		0.010 <			
0000001	005	39315	O,P'-DDD UG/L		0.010 <			

FACILITY: [illegible] ST CHARLES *** CONTINUED ***

0000001	006	39320	P,P'-DDE UG/L	0.010 <	
0000001	007	39327	O,P'-DDE UG/L	0.010 <	
0000001	008	39330	ALDRIN UG/L	0.010 <	1.000
0000001	009	39340	LINDANE UG/L	0.010 <	4.000
0000001	010	39380	DIELDRIN UG/L	0.010 <	1.000
0000001	011	39390	ENDRIN UG/L	0.010 <	0.200
0000001	012	39398	ETHION UG/L	0.010 <	
0000001	013	39400	TOXAPHENE UG/L	1.000 <	5.000
0000001	014	39410	HEPTACHLOR UG/L	0.010 <	0.100
0000001	015	39420	HEPTACHLOR EPOXIDE UG/L	0.010 <	0.100
0000001	016	39480	METHOXYCHLOR UG/L	0.050 <	100.000
0000001	017	39530	MALATHION UG/L	0.010 <	
0000001	018	39570	DIAZINON UG/L	0.010 <	
0000001	019	39600	METHYL PARATHION UG/L	0.010 <	
0000001	020	39730	2,4-D UG/L	0.050 <	10.000
0000001	021	39760	SILVEX UG/L	0.010 <	10.000
0000001	022	81294	DYFONATE UG/L	0.010 <	
0000001	023	82088	TERBUFOS (COUNTER) UG/L	0.010 <	
0000001	024	00010	WATER TEMPERATURE DEG C	11.000	
0000001	025	00059	FLOW (PUMPING) RATE GAL/MIN	1180.000	
0000001	026	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS	159.000	
0000001	027	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C	780.000	
0000001	028	00400	PH PH UNITS	7.000	
0000001	029	00410	ALKALINITY,TOTAL MG/L AS CACO3	334.000	
0000001	030	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN	550.000	
0000001	031	72019	DEPTH FROM LAND SURFACE TO WATER SURFACE	31.000	
0000001	032	90410		317.000	

SAMPLE NO: B91373200 LOCATION: ST CHARLES WELL 9 COLL DATE: 09/20/89 DELIVERED BY: UPS
SMPL TYPE: RAW COLLECTOR: MF LAB RCVD: 09/21/89 RECEIVED BY: PMD
SMPL PURPOSE: ROUTINE COMMENTS: LAB COMPL: 11/02/89 LAB SUPERVISOR: RPF
SMPL PROG: C-CHEMICAL OBSRVATNS: SMPL PERIOD: 09/89 FUND CODE: PW30

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
100T000	001	00403	PH LABORATORY UNITS	UNITS	7.800			
101T000	001	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C	UM/CM	840.000			
102T000	001	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L	MG/L	496.000			
103T000	001	00410	ALKALINITY,TOTAL MG/L AS CACO3	MG/L	355.000			
105T000	001	00900	HARDNESS,TOTL MG/L AS CACO3	MG/L	466.000			
107T000	001	00951	FLUORIDE,TOTAL MG/L AS F	MG/L	0.100	4.000		
108T000	001	00940	CHLORIDE,TOTAL MG/L AS CL	MG/L	34.000			
109T000	001	00945	SULFATE,TOTAL MG/L AS SO4	MG/L	67.000			
110T000	001	00630	NITRATE & NITRITE TOTAL MG/L AS N	MG/L	0.530	10.000		
111T000	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N	MG/L	0.100 <			
114T000	001	00956	SILICA,TOTAL MG/L AS SIO2	MG/L	13.000			
116T000	001	00720	CYANIDE,TOTAL MG/L AS CN	MG/L	0.005 <	0.200		
144T000	001	01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS	UG/L	1.000 <	50.000		
151T000	001	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB	UG/L	5.000 <	50.000		

FACILITY: 0894830 ST CHARLES *** CONTINUED ***

153T000	001	71900	MERCURY,TOTAL UG/L AS HG	UG/L	0.050 <	2.000	
155T000	001	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE	UG/L	1.000 <	10.000	
177T100	001	00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	95.000		
177T100	002	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	47.000		
177T100	003	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP	MG/L	16.000		
177T100	004	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP	MG/L	1.600		
177T100	005	01105	ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP	UG/L	50.000 <		
177T100	006	01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP	UG/L	72.000	1000.000	
177T100	007	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP	UG/L	75.000		
177T100	008	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP	UG/L	0.500 <		
177T100	009	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB	UG/L	3.000 <	10.000	
177T100	010	01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB	UG/L	5.000 <	50.000	
177T100	011	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	UG/L	5.000 <	5000.000	
177T100	012	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP	UG/L	5.000 <		
177T100	013	01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP	UG/L	50.000 <	1000.000	
177T100	014	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	UG/L	5.000 <	150.000	
177T100	015	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	UG/L	5.000 <		
177T100	016	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	UG/L	3.000 <	50.000	
177T100	017	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	UG/L	180.000		
177T100	018	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP	UG/L	5.000 <		
177T100	019	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	UG/L	50.000 <	5000.000	
177T100	020	82394	HARDNESS, CALC - MG/L	MG/L	430.000		

SAMPLE NO: Z003667 LOCATION: WELL
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR
SMPL PURP: 5-SPEC/OTHR COMMENTS:
SMPL CODE: 2-GW/ INORG OBSRVATNS:

COLL DATE: 02/21/85 DELIVERED BY:
LAB RCVD: 00/00/00 RECEIVED BY:
LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PERIOD: 02/85 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.100 <			
0000001	002	00630	NITRATE & NITRITE TOTAL MG/L AS N		1.100	10.000		
0000001	003	00665	PHOSPHORUS, TOTAL MG/L AS P		0.010			
0000001	004	00720	CYANIDE,TOTAL MG/L AS CN		0.010 <	0.200		
0000001	005	00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		86.000			
0000001	006	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		44.000			
0000001	007	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		26.000			
0000001	008	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		2.900			
0000001	009	00940	CHLORIDE,TOTAL MG/L AS CL		40.000			
0000001	010	00945	SULFATE,TOTAL MG/L AS SO4		61.000			
0000001	011	00951	FLUORIDE,TOTAL MG/L AS F		0.110	4.000		
0000001	012	00956	SILICA,TOTAL MG/L AS SIO2		11.000			
0000001	013	01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS		1.000 <	50.000		
0000001	014	01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		72.000	1000.000		
0000001	015	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		2.000 <			
0000001	016	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		73.000			
0000001	017	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB		3.000 <	10.000		
0000001	018	01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB		5.000 <	50.000		
0000001	019	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP		5.000 <			

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES
SELECTED SAMPLE EXPANDED REPORT

FACILITY: [illegible] ST CHARLES *** CONTINUED ***

0000001	020	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	5.000 <	5000.000	
0000001	021	01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP	5.000 <	1000.000	
0000001	022	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB	5.000 <	50.000	
0000001	023	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	5.000 <	150.000	
0000001	024	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	7.000		
0000001	025	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	3.000 <	50.000	
0000001	026	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	102.000		
0000001	027	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP	5.000 <		
0000001	028	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	60.000 <	5000.000	
0000001	029	01105	ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP	50.000 <		
0000001	030	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE	1.000 <	10.000	
0000001	031	32730	PHENOLS, TOTAL RECOVERABLE UG/L	5.000 <		
0000001	032	70300	RESIDUE,TOTAL FILTRABLE @180 C,MG/L	478.000		
0000001	033	71900	MERCURY,TOTAL UG/L AS HG	0.010 <	2.000	
0000001	034	00010	WATER TEMPERATURE DEG C	11.000		
0000001	035	00059	FLOW (PUMPING) RATE GAL/MIN	1160.000		
0000001	036	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS	159.000		
0000001	037	00095	CONDUCTIVITY(EC)-LABCUMHOS/CM @ 25 C	780.000		
0000001	038	00400	PH PH UNITS	7.000		
0000001	039	00410	ALKALINITY,TOTAL MG/L AS CACO3	334.000		
0000001	040	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN	550.000		
0000001	041	72019	DEPTH FROM LAND SURFACE TO WATER SURFACE	31.000		
0000001	042	90410		317.000		

SAMPLE NO: Z003665 LOCATION: WELL
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR
SMPL PURP: 5-SPEC/OTHR COMMENTS:
SMPL PROG: I-GWM INORG OBSRVATNS:

COLL DATE: 10/29/84 DELIVERED BY:
LAB RCVD: 00/00/00 RECEIVED BY:
LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PERIOD: 10/84 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.110			
0000001	002	00630	NITRATE & NITRITE TOTAL MG/L AS N		1.200	10.000		
0000001	003	00665	PHOSPHORUS, TOTAL MG/L AS P		0.010 <			
0000001	004	00720	CYANIDE,TOTAL MG/L AS CN		0.010 <	0.200		
0000001	005	00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		84.000			
0000001	006	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		43.000			
0000001	007	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		26.000			
0000001	008	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		2.900			
0000001	009	00940	CHLORIDE,TOTAL MG/L AS CL		39.000			
0000001	010	00945	SULFATE,TOTAL MG/L AS SO4		60.000			
0000001	011	00951	FLUORIDE,TOTAL MG/L AS F		0.100	4.000		
0000001	012	00956	SILICA,TOTAL MG/L AS SIO2		11.000			
0000001	013	01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS		1.000 <	50.000		
0000001	014	01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		56.000	1000.000		
0000001	015	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		0.500 <			
0000001	016	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		83.000			
0000001	017	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB		3.000 <	10.000		
0000001	018	01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB		5.000 <	50.000		

FACILITY: 0894830 ST CHARLES *** CONTINUED ***

0000001	019	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP	5.000	<	
0000001	020	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	5.000	<	5000.000
0000001	021	01045	IRON,TOTAL RECOVERABLE, UG/L AS FE ANAL BY ICP	50.000	<	1000.000
0000001	022	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	5.000	<	150.000
0000001	023	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	5.000	<	
0000001	024	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	3.000	<	50.000
0000001	025	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	119.000		
0000001	026	01087	VANADIUM,TOTAL RECOVERABLE UG/L AS V ANAL BY ICP	5.000	<	
0000001	027	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	50.000	<	5000.000
0000001	028	01105	ALUMINUM,TOTAL RECOVERABLE UG/L AS AL ANAL BY ICP	50.000	<	
0000001	029	01147	SELENIUM,TOTAL RECOVERABLE UG/L AS SE	1.000	<	10.000
0000001	030	32730	PHENOLS, TOTAL RECOVERABLE UG/L	5.000	<	
0000001	031	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L	500.000		
0000001	032	71900	MERCURY,TOTAL UG/L AS HG	0.100	<	2.000
0000001	33	00011	WATER TEMPERATURE DEG C	12.000		
0000001	034	00059	FLOW (PUMPING) RATE GAL/MIN	1380.000		
0000001	035	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C	485.000		
0000001	36	00400	PH PH UNITS	8.600		
0000001	37	00410	ALKALINITY,TOTAL MG/L AS CACO3	326.000		
0000001	038	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN	195.000		
0000001	039	72019	DEPTH FROM LAND SURFACE TO WATER SURFACE	30.000		
0000001	040	90410		313.000		

SAMPLE NO: 2003664 LOCATION: WELL COLL DATE: 09/12/84 DELIVERED BY:
FUEL TYPE: 24 COLLECTOR: DEPA DRFL COLLECTOR LAB RCVD: 00/00/00 RECEIVED BY:
SMPL PURP: 5-SPEC/OTHR COMMENTS: LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PROG: 2-GWM INORG OBSRVATNS: SMPL PERIOD: 09/84 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.130			
0000001	002	00630	NITRATE & NITRITE TOTAL MG/L AS N		1.300	10.000		
0000001	003	00665	PHOSPHORUS, TOTAL MG/L AS P		0.010	<		
0000001	004	00720	CYANIDE,TOTAL MG/L AS CN		0.010	< 0.200		
0000001	005	00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		83.000			
0000001	006	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS MG ANAL BY ICP		43.000			
0000001	007	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		23.000			
0000001	008	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		2.800			
0000001	009	00940	CHLORIDE,TOTAL MG/L AS CL		40.000			
0000001	010	00945	SULFATE,TOTAL MG/L AS SO4		62.000			
0000001	011	00951	FLUORIDE,TOTAL MG/L AS F		0.160	4.000		
0000001	012	00956	SILICA,TOTAL MG/L AS SIO2		13.000			
0000001	013	01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS		1.000	< 50.000		
0000001	014	01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		53.000	1000.000		
0000001	015	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		0.500	<		
0000001	016	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		65.000			
0000001	017	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB		3.000	< 10.000		
0000001	018	01034	CHROMIUM,TOTAL RECOVERABLE UG/L AS CR ANAL BY ICB		5.000	< 50.000		
0000001	019	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP		5.000	<		

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF PUBLIC WATER SUPPLIES
SELECTED SAMPLE EXPANDED REPORT

FACILITY: 0894830 ST CHARLES *** CONTINUED ***

0000001	020	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	5.000	<	5000.000
0000001	021	01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP	50.000	<	1000.000
0000001	022	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB	5.000	<	50.000
0000001	023	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	5.000	<	150.000
0000001	024	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	5.000	<	
0000001	025	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	3.000	<	50.000
0000001	026	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	114.000		
0000001	027	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP	5.000	<	
0000001	028	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	50.000	<	5000.000
0000001	029	01105	ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP	5.000	<	
0000001	030	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE	1.000	<	10.000
0000001	031	32730	PHENOLS, TOTAL RECOVERABLE UG/L	5.000		
0000001	032	70300	RESIDUE,TOTAL FILTERABLE 0180 C,MG/L	516.000		
0000001	033	71900	MERCURY,TOTAL UG/L AS HG	0.100	<	2.000
0000001	034	00010	WATER TEMPERATURE DEG C	10.500		
0000001	035	01059	FLOW (PUMPING) RATE GAL/MIN	1000.000		
0000001	036	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C	815.000		
0000001	037	00400	PH PH UNITS	7.200		
0000001	038	00410	ALKALINITY,TOTAL MG/L AS CACO3	320.000		
0000001	039	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN	505.000		
0000001	040	72019	DEPTH FROM LAND SURFACE TO WATER SURFACE	30.000		
0000001	041	90410		332.000		

SAMPLE NO: Z0034A3 LOCATION: WELL COLL DATE: 04/24/84 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR LAB RCVD: 00/00/00 RECEIVED BY:
SMPL PURP: 5-SPEC/OTHR COMMENTS: LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PROG: E-GWM ENDRS OBSRVATNS: SMPL PERIOD: 04/84 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT		STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.100	<			
0000001	002	00630	NITRATE & NITRITE TOTAL MG/L AS N		2.000		10.000		
0000001	003	00665	PHOSPHORUS, TOTAL MG/L AS P		0.010				
0000001	004	00720	CYANIDE,TOTAL MG/L AS CN		0.010	<	0.200		
0000001	005	00915	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		85.000				
0000001	006	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		43.000				
0000001	007	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		22.000				
0000001	008	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		2.700				
0000001	009	00940	CHLORIDE,TOTAL MG/L AS CL		40.000				
0000001	010	00945	SULFATE,TOTAL MG/L AS SO4		66.000				
0000001	011	00951	FLUORIDE,TOTAL MG/L AS F		0.150		4.000		
0000001	012	00956	SILICA,TOTAL MG/L AS SIO2		12.000				
0000001	013	01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS		1.000	<	50.000		
0000001	014	01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		45.000		1000.000		
0000001	015	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		0.500	<			
0000001	016	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		70.000				
0000001	017	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB		3.000	<	10.000		
0000001	018	01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB		5.000	<	50.000		
0000001	019	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP		5.000	<			

FACILITY: [illegible] ST CHARLES *** CONTINUED ***

0000001	020	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	6.000		5000.000	
0000001	021	01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP	50.000	<	1000.000	
0000001	022	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB	5.000	<	50.000	
0000001	023	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	5.000	<	150.000	
0000001	024	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	5.000	<		
0000001	025	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	3.000	<	50.000	
0000001	026	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	69.000			
0000001	027	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP	5.000	<		
0000001	028	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	50.000	<	5000.000	
0000001	029	01105	ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP	52.000			
0000001	030	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE	1.000	<	10.000	
0000001	031	32730	PHENOLS, TOTAL RECOVERABLE UG/L	5.000	<		
0000001	032	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L	453.000			
0000001	033	71900	MERCURY,TOTAL UG/L AS HG	0.100	<	2.000	
0000001	034	00010	WATER TEMPERATURE DEG C	11.000			
0000001	035	00059	FLOW (PUMPING) RATE GAL/MIN	1200.000			
0000001	036	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C	785.000			
0000001	037	00400	PH PH UNITS	6.600			
0000001	038	00410	ALKALINITY,TOTAL MG/L AS CACO3	309.000			
0000001	039	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN	255.000			
0000001	040	72019	DEPTH FROM LAND SURFACE TO WATER SURFACE	29.000			
0000001	041	90410		349.000			

SAMPLE NO: B006842 LOCATION: WELL #9 COLL DATE: 08/24/82 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: R GILLES LAB RCVD: 10/18/82 RECEIVED BY:
SMPL PURP: 1-ROUTINE COMMENTS: LAB COMPL: LAB SUPERVISOR:
SMPL PROG: 1-GWM INORG OBSRVATNS: SMPL PERIOD: 08/92 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT		STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
		00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C		740.000				
		00403	PH LABORATORY UNITS		7.400				
		00410	ALKALINITY,TOTAL MG/L AS CACO3		293.000				
		00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.100	<			
		00630	NITRATE & NITRITE TOTAL MG/L AS N		1.400		10.000		
		00720	CYANIDE,TOTAL MG/L AS CN		0.005	<	0.200		
		00900	HARDNESS,EDTA MG/L AS CACO3		360.000				
		00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		84.000				
		00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		40.000				
		00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		15.000				
		00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		2.000				
		00940	CHLORIDE,TOTAL MG/L AS CL		30.000				
		00945	SULFATE,TOTAL MG/L AS SO4		57.000				
		00951	FLUORIDE,TOTAL MG/L AS F		0.190		4.000		
		00956	SILICA,TOTAL MG/L AS SIO2		11.000				
		01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS		1.000	<	50.000		
		01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		42.000		1000.000		
		01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		0.500	<			
		01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		50.000				

FACILITY: 0894830 ST CHARLES *** CONTINUED ***

	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB	3.000 <	10.000
	01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB	6.000 <	50.000
	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP	5.000 <	
	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	3.000 <	5000.000
	01045	IRON,TOTAL RECOVERABLE, UG/L AS FE ANAL BY ICP	5.000 <	1000.000
	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB	5.000 <	50.000
	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	5.000 <	150.000
	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	3.000 <	
	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	5.000 <	50.000
	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	91.000	
	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP	4.000 <	
	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	2.000 <	5000.000
	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE	1.000 <	10.000
	70301	RESIDUE,TOTAL FILTERABLE @180 C,MG/L	428.000	
	70304	TOTAL DISSOLVED SOLIDS MG/L BY EC	440.000	
	71900	MERCURY,TOTAL UG/L AS HG	0.050 <	2.000

SAMPLE NO: Z003666 LOCATION: WELL COLL DATE: 02/21/85 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR LAB RCVD: 00/00/00 RECEIVED BY:
SMPL PURP: 5-SPEC/OTHR COMMENTS: LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PROG: V-VOC OBSERVATNS: SMPL PERIOD: 02/85 FUND CODE:

ANALYSIS	RSLT	STORET		UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	32101	BROMODICHLOROMETHANE UG/L CG/MS		1.000 <			
0000001	002	32102	CARBON TETRACHLORIDE UG/L CG/MS		1.000 <	5.000		
0000001	003	32103	1,2-DICHLOROETHANE UG/L		1.000 <	5.000		
0000001	004	32104	BROMOFORM UG/L CG/MS		1.000 <			
0000001	005	32105	DIBROMOCHLOROMETHANE UG/L GC/MS		1.000 <			
0000001	006	32106	CHLOROFORM UG/L GC/MS		1.000 <			
0000001	007	34010	TOLUENE UG/L		1.000 <	1000.000		
0000001	008	34030	BENZENE UG/L		1.000 <	5.000		
0000001	009	34301	CHLOROBENZENE UG/L		1.000 <	100.000		
0000001	010	34371	ETHYLBENZENE UG/L		1.000 <	700.000		
0000001	011	34423	METHYLENE CHLORIDE UG/L		1.000 <	5.000		
0000001	012	34475	TETRACHLOROETHYLENE UG/L GC/MS		1.000 <	5.000		
0000001	013	34496	1,1-DICHLOROETHANE UG/L GC/MS		1.000 <			
0000001	014	34501	1,1-DICHLOROETHYLENE UG/L GC/MS		1.000 <	7.000		
0000001	015	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS		1.000 <	200.000		
0000001	016	39180	TRICHLOROETHYLENE UG/L		1.000 <	5.000		
0000001	017	00010	WATER TEMPERATURE DEG C		11.000			
0000001	018	00059	FLOW (PUMPING) RATE GAL/MIN		1180.000			
0000001	019	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS		159.000			
0000001	020	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C		780.000			
0000001	021	00400	PH, LAB UNITS		7.040			
0000001	022	00410	ALKALINITY,TOTAL MG/L AS CACO3		334.000			
0000001	023	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN		650.000			
0000001	024	72019	DEPTH FROM LAND SURFACE TO WATER SURFACE		31.000			
0000001	025	90410			317.000			

APPENDIX H

HAZARD REVIEW WORKSHEET

1. Unique I.D. Number 20099-01-__ , Distance and Direction from the Wellhead 25 feet east of the well

2. Nature of Business City of St. Charles - Fire Dept.

3. DLPC Permit Number(s) and Description (e.g., RCRA, Generic, Solid Waste, UIC, etc.): None

4. DAPC Permit Number(s) and Description: None

5. DWPC Permit Numbers and Description (e.g., NPDES, Industrial Pre-Treatment, Sewer Plans, etc.): None

6. ERU Incidents and Description: None

7. ERU 313 Reports and Description: None

8. ESDA 302/303 Reports and Description: None

9. ESDA 311/312 Reports and Description: None

10. PWS compliance monitoring conducted and describe the results (e.g., VOC/VOA sample detects, etc.): None

11. ISFM list the underground storage tanks registered, provide the owner name & address:

Owner Name	Address

12. Is the site sewered or non-sewered? Sewered

If the site is not sewered, describe: _____

13. Has on-site past or present landfilling, land treating, or surface impoundment of waste, other than landscape waste or construction and demolition debris occured?

( ) Yes. If yes, describe: _____

(X) No.

14. Are there currently any on-site piles of special or hazardous waste?

( ) Yes. If yes, describe: _____

(X) No.

15. Are on-site piles of waste (other than special or hazardous wastes) managed according to Agency guidelines?

( ) Yes. If yes, describe: _____

( ) No.

16. Are there currently any underground storage tanks present on-site, and will any underground tanks be installed in the future?

( ) Yes. If yes, describe: _____

(X) No.

17(a). Has any situation(s) occurred at this site which resulted in a "release" of any hazardous substance or petroleum?

( ) Yes (continue to next question)
(X) No (stop here)

(b). Have any hazardous substances or petroleum, which were released, come into contact with the ground surface at this site? (Note--do not automatically exclude paved or otherwise covered areas that may still have allowed chemical substances to penetrate into the ground.)

( ) Yes (continue to next question)
( ) No (stop here)

(c). Have any of the following actions/events been associated with the release(s) referred to in question 17(b)?

( ) Hiring of a cleanup contractor to remove obviously contaminated materials including subsoils

( ) Replacement or major repair of damaged facilities

(c).(continued)

( ) Assignment of in-house maintenance staff to remove obviously contaminated materials including subsoils

( ) Designation, by IEPA or the ESDA, of a release as "significant" under the Illinois Chemical Safety Act

( ) Reordering or other replenishment of inventory due to the amount of substance lost

( ) Temporary or more long-term monitoring of groundwater at or near the site

( ) Stop usage of an on-site or nearby water well because of offensive characteristics of the water

( ) Coping with fumes from subsurface storm drains or inside basements

( ) Signs of substances leaching out of the ground along the base of slopes or at other low points on or adjacent to the site

(d). The on-site release(s) may have been of sufficient magnitude to contaminate groundwaters. Summarize the problem.

_____
_____
_____
_____
_____

18. Are there more than 100 gallons of either pesticides or organic solvents, or 10,000 gallons of any hazardous substance, or 30,000 gallons of petroleum present at any time?

( ) Yes. If yes, describe: _____
_____

(X) No.

19. Do any of the regulated entities have groundwater monitoring systems, and have any exceeded compliance requirements?

( ) Yes. If yes, describe: _____
_____

(X) No.

20. After considering all of the above criteria does this site potentially pose a hazard to groundwater?

( ) Yes. If yes, describe: _____
_____
_____
_____
_____

(X) No.

HAZARD REVIEW WORKSHEET

1. Unique I.D. Number 2 0 1 0 3 - 0 2 - _ _ , Distance and Direction from the Wellhead 180 feet west of the well

2. Nature of Business Truck servicing

3. DLPC Permit Number(s) and Description (e.g., RCRA, Generic, Solid Waste, UIC, etc.): None

4. DAPC Permit Number(s) and Description: None

5. DWPC Permit Numbers and Description (e.g., NPDES, Industrial Pre-Treatment, Sewer Plans, etc.): None

6. ERU Incidents and Description: None

7. ERU 313 Reports and Description: None

8. ESDA 302/303 Reports and Description: None

9. ESDA 311/312 Reports and Description: None

10. PWS compliance monitoring conducted and describe the results (e.g., VOC/VOA sample detects, etc.): None

11. ISFM list the underground storage tanks registered, provide the owner name & address:

Owner Name	Address

12. Is the site sewered or non-sewered? Sewered

If the site is not sewered, describe: _____

13. Has on-site past or present landfilling, land treating, or surface impoundment of waste, other than landscape waste or construction and demolition debris occured?

( ) Yes. If yes, describe: _____

(X) No.

14. Are there currently any on-site piles of special or hazardous waste?

( ) Yes. If yes, describe: _____

(X) No.

15. Are on-site piles of waste (other than special or hazardous wastes) managed according to Agency guidelines?

( ) Yes. If yes, describe: _____

( ) No.

16. Are there currently any underground storage tanks present on-site, and will any underground tanks be installed in the future?

( ) Yes. If yes, describe: _____

(X) No.

17(a). Has any situation(s) occurred at this site which resulted in a "release" of any hazardous substance or petroleum?

( ) Yes (continue to next question)
(X) No (stop here)

(b). Have any hazardous substances or petroleum, which were released, come into contact with the ground surface at this site? (Note--do not automatically exclude paved or otherwise covered areas that may still have allowed chemical substances to penetrate into the ground.)

( ) Yes (continue to next question)
( ) No (stop here)

(c). Have any of the following actions/events been associated with the release(s) referred to in question 17(b)?

( ) Hiring of a cleanup contractor to remove obviously contaminated materials including subsoils

( ) Replacement or major repair of damaged facilities

(c).(continued)

( ) Assignment of in-house maintenance staff to remove obviously contaminated materials including subsoils

( ) Designation, by IEPA or the ESDA, of a release as "significant" under the Illinois Chemical Safety Act

( ) Reordering or other replenishment of inventory due to the amount of substance lost

( ) Temporary or more long-term monitoring of groundwater at or near the site

( ) Stop usage of an on-site or nearby water well because of offensive characteristics of the water

( ) Coping with fumes from subsurface storm drains or inside basements

( ) Signs of substances leaching out of the ground along the base of slopes or at other low points on or adjacent to the site

(d). The on-site release(s) may have been of sufficient magnitude to contaminate groundwaters. Summarize the problem.

_____
_____
_____
_____
_____

18. Are there more than 100 gallons of either pesticides or organic solvents, or 10,000 gallons of any hazardous substance, or 30,000 gallons of petroleum present at any time?

( ) Yes. If yes, describe: _____
_____

(X) No.

19. Do any of the regulated entities have groundwater monitoring systems, and have any exceeded compliance requirements?

( ) Yes. If yes, describe: _____
_____

(X) No.

20. After considering all of the above criteria does this site potentially pose a hazard to groundwater?

( ) Yes. If yes, describe: _____
_____
_____
_____
_____

(X) No.

HAZARD REVIEW WORKSHEET

1. Unique I.D. Number 2 0 1 0 3 - 0 8 - P S , Distance and Direction from the Wellhead 150 feet east of the well

2. Nature of Business Lumber yard

3. DLPC Permit Number(s) and Description (e.g., RCRA, Generic, Solid Waste, UIC, etc.): None

4. DAPC Permit Number(s) and Description: None

5. DWPC Permit Numbers and Description (e.g., NPDES, Industrial Pre-Treatment, Sewer Plans, etc.): None

6. ERU Incidents and Description: None

7. ERU 313 Reports and Description: None

8. ESDA 302/303 Reports and Description: None

9. ESDA 311/312 Reports and Description: None

10. PWS compliance monitoring conducted and describe the results (e.g., VOC/VOA sample detects, etc.): None

11. ISFM list the underground storage tanks registered, provide the owner name & address:

Owner Name	Address
Joseph Bairdo	2020 W. Main St., St. Charles, IL 60174

12. Is the site sewered or non-sewered? Sewered

If the site is not sewered, describe: _____

13. Has on-site past or present landfilling, land treating, or surface impoundment of waste, other than landscape waste or construction and demolition debris occured?

( ) Yes. If yes, describe: _____

(X) No.

14. Are there currently any on-site piles of special or hazardous waste?

( ) Yes. If yes, describe: _____

(X) No.

15. Are on-site piles of waste (other than special or hazardous wastes) managed according to Agency guidelines?

( ) Yes. If yes, describe: _____

( ) No.

16. Are there currently any underground storage tanks present on-site, and will any underground tanks be installed in the future?

(X) Yes. If yes, describe: 1 registered underground storage tank on site
OSFM #2-014003

( ) No.

17(a). Has any situation(s) occurred at this site which resulted in a "release" of any hazardous substance or petroleum?

( ) Yes (continue to next question)
(X) No (stop here)

(b). Have any hazardous substances or petroleum, which were released, come into contact with the ground surface at this site? (Note--do not automatically exclude paved or otherwise covered areas that may still have allowed chemical substances to penetrate into the ground.)

( ) Yes (continue to next question)
( ) No (stop here)

(c). Have any of the following actions/events been associated with the release(s) referred to in question 17(b)?

( ) Hiring of a cleanup contractor to remove obviously contaminated materials including subsoils

( ) Replacement or major repair of damaged facilities

(c).(continued)

( ) Assignment of in-house maintenance staff to remove obviously contaminated materials including subsoils

( ) Designation, by IEPA or the ESDA, of a release as "significant" under the Illinois Chemical Safety Act

( ) Reordering or other replenishment of inventory due to the amount of substance lost

( ) Temporary or more long-term monitoring of groundwater at or near the site

( ) Stop usage of an on-site or nearby water well because of offensive characteristics of the water

( ) Coping with fumes from subsurface storm drains or inside basements

( ) Signs of substances leaching out of the ground along the base of slopes or at other low points on or adjacent to the site

(d). The on-site release(s) may have been of sufficient magnitude to contaminate groundwaters. Summarize the problem.

_____
_____
_____
_____
_____

18. Are there more than 100 gallons of either pesticides or organic solvents, or 10,000 gallons of any hazardous substance, or 30,000 gallons of petroleum present at any time?

( ) Yes. If yes, describe: _____
_____

(X) No.

19. Do any of the regulated entities have groundwater monitoring systems, and have any exceeded compliance requirements?

( ) Yes. If yes, describe: _____
_____

(X) No.

20. After considering all of the above criteria does this site potentially pose a hazard to groundwater?

(X) Yes. If yes, describe: Any underground storage tank in close proximity to a water well is a potential hazard to groundwater.
_____
_____
_____
_____

( ) No.

HAZARD REVIEW WORKSHEET

1. Unique I.D. Number 2 0 1 0 4 - 0 3 - _ _ , Distance and Direction from the Wellhead 400 feet northwest of the well

2. Nature of Business Packing company

3. DLPC Permit Number(s) and Description (e.g., RCRA, Generic, Solid Waste, UIC, etc.): None

4. DAPC Permit Number(s) and Description: None

5. DWPC Permit Numbers and Description (e.g., NPDES, Industrial Pre-Treatment, Sewer Plans, etc.): None

6. ERU Incidents and Description: None

7. ERU 313 Reports and Description: None

8. ESDA 302/303 Reports and Description: None

9. ESDA 311/312 Reports and Description: None

10. PWS compliance monitoring conducted and describe the results (e.g., VOC/VOA sample detects, etc.): None

11. ISFM list the underground storage tanks registered, provide the owner name & address:

Owner Name	Address

12. Is the site sewered or non-sewered? Sewered

If the site is not sewered, describe: _____

13. Has on-site past or present landfilling, land treating, or surface impoundment of waste, other than landscape waste or construction and demolition debris occured?

( ) Yes. If yes, describe: _____

(X) No.

14. Are there currently any on-site piles of special or hazardous waste?

( ) Yes. If yes, describe: _____

(X) No.

15. Are on-site piles of waste (other than special or hazardous wastes) managed according to Agency guidelines?

( ) Yes. If yes, describe: _____

( ) No.

16. Are there currently any underground storage tanks present on-site, and will any underground tanks be installed in the future?

( ) Yes. If yes, describe: _____

(X) No.

17(a). Has any situation(s) occurred at this site which resulted in a "release" of any hazardous substance or petroleum?

( ) Yes (continue to next question)
(X) No (stop here)

(b). Have any hazardous substances or petroleum, which were released, come into contact with the ground surface at this site? (Note--do not automatically exclude paved or otherwise covered areas that may still have allowed chemical substances to penetrate into the ground.)

( ) Yes (continue to next question)
( ) No (stop here)

(c). Have any of the following actions/events been associated with the release(s) referred to in question 17(b)?

( ) Hiring of a cleanup contractor to remove obviously contaminated materials including subsoils

( ) Replacement or major repair of damaged facilities

(c).(continued)

( ) Assignment of in-house maintenance staff to remove obviously contaminated materials including subsoils

( ) Designation, by IEPA or the ESDA, of a release as "significant" under the Illinois Chemical Safety Act

( ) Reordering or other replenishment of inventory due to the amount of substance lost

( ) Temporary or more long-term monitoring of groundwater at or near the site

( ) Stop usage of an on-site or nearby water well because of offensive characteristics of the water

( ) Coping with fumes from subsurface storm drains or inside basements

( ) Signs of substances leaching out of the ground along the base of slopes or at other low points on or adjacent to the site

(d). The on-site release(s) may have been of sufficient magnitude to contaminate groundwaters. Summarize the problem.

_____
_____
_____
_____
_____

18. Are there more than 100 gallons of either pesticides or organic solvents, or 10,000 gallons of any hazardous substance, or 30,000 gallons of petroleum present at any time?

( ) Yes. If yes, describe: _____
_____

(X) No.

19. Do any of the regulated entities have groundwater monitoring systems, and have any exceeded compliance requirements?

( ) Yes. If yes, describe: _____
_____

(X) No.

20. After considering all of the above criteria does this site potentially pose a hazard to groundwater?

( ) Yes. If yes, describe: _____
_____
_____
_____
_____

(X) No.

HAZARD REVIEW WORKSHEET

1. Unique I.D. Number 2 0 1 0 4 - 1 2 - _ _ , Distance and Direction from the Wellhead 375 feet east of the well

2. Nature of Business Unknown

3. DLPC Permit Number(s) and Description (e.g., RCRA, Generic, Solid Waste, UIC, etc.): None

4. DAPC Permit Number(s) and Description: None

5. DWPC Permit Numbers and Description (e.g., NPDES, Industrial Pre-Treatment, Sewer Plans, etc.): None

6. ERU Incidents and Description: None

7. ERU 313 Reports and Description: None

8. ESDA 302/303 Reports and Description: None

9. ESDA 311/312 Reports and Description: None

10. PWS compliance monitoring conducted and describe the results (e.g., VOC/VOA sample detects, etc.): None

11. ISFM list the underground storage tanks registered, provide the owner name & address:

Owner Name	Address

12. Is the site sewered or non-sewered? Sewered

If the site is not sewered, describe: _____

13. Has on-site past or present landfilling, land treating, or surface impoundment of waste, other than landscape waste or construction and demolition debris occured?

( ) Yes. If yes, describe: _____

(x) No.

14. Are there currently any on-site piles of special or hazardous waste?

( ) Yes. If yes, describe: _____

(x) No.

15. Are on-site piles of waste (other than special or hazardous wastes) managed according to Agency guidelines?

( ) Yes. If yes, describe: _____

( ) No.

16. Are there currently any underground storage tanks present on-site, and will any underground tanks be installed in the future?

( ) Yes. If yes, describe: _____

(x) No.

17(a). Has any situation(s) occurred at this site which resulted in a "release" of any hazardous substance or petroleum?

( ) Yes (continue to next question)
(x) No (stop here)

(b). Have any hazardous substances or petroleum, which were released, come into contact with the ground surface at this site? (Note--do not automatically exclude paved or otherwise covered areas that may still have allowed chemical substances to penetrate into the ground.)

( ) Yes (continue to next question)
( ) No (stop here)

(c). Have any of the following actions/events been associated with the release(s) referred to in question 17(b)?

( ) Hiring of a cleanup contractor to remove obviously contaminated materials including subsoils

( ) Replacement or major repair of damaged facilities

(c).(continued)

( ) Assignment of in-house maintenance staff to remove obviously contaminated materials including subsoils

( ) Designation, by IEPA or the ESDA, of a release as "significant" under the Illinois Chemical Safety Act

( ) Reordering or other replenishment of inventory due to the amount of substance lost

( ) Temporary or more long-term monitoring of groundwater at or near the site

( ) Stop usage of an on-site or nearby water well because of offensive characteristics of the water

( ) Coping with fumes from subsurface storm drains or inside basements

( ) Signs of substances leaching out of the ground along the base of slopes or at other low points on or adjacent to the site

(d). The on-site release(s) may have been of sufficient magnitude to contaminate groundwaters. Summarize the problem.

_____
_____
_____
_____
_____

18. Are there more than 100 gallons of either pesticides or organic solvents, or 10,000 gallons of any hazardous substance, or 30,000 gallons of petroleum present at any time?

( ) Yes. If yes, describe: _____
_____

(X) No.

19. Do any of the regulated entities have groundwater monitoring systems, and have any exceeded compliance requirements?

( ) Yes. If yes, describe: _____
_____

(X) No.

20. After considering all of the above criteria does this site potentially pose a hazard to groundwater?

( ) Yes. If yes, describe: _____
_____
_____
_____
_____

(X) No.

HAZARD REVIEW WORKSHEET

1. Unique I.D. Number 2 0 1 0 4 - 1 5 - _ _ , Distance and Direction from the Wellhead 250 feet south of the well

2. Nature of Business Unknown

3. DLPC Permit Number(s) and Description (e.g., RCRA, Generic, Solid Waste, UIC, etc.): None

4. DAPC Permit Number(s) and Description: None

5. DWPC Permit Numbers and Description (e.g., NPDES, Industrial Pre-Treatment, Sewer Plans, etc.): None

6. ERU Incidents and Description: None

7. ERU 313 Reports and Description: None

8. ESDA 302/303 Reports and Description: None

9. ESDA 311/312 Reports and Description: None

10. PWS compliance monitoring conducted and describe the results (e.g., VOC/VOA sample detects, etc.): None

11. ISFM list the underground storage tanks registered, provide the owner name & address:

Owner Name	Address

12. Is the site sewered or non-sewered? Sewered

If the site is not sewered, describe: _____

13. Has on-site past or present landfilling, land treating, or surface impoundment of waste, other than landscape waste or construction and demolition debris occured?

( ) Yes. If yes, describe: _____

(X) No.

14. Are there currently any on-site piles of special or hazardous waste?

( ) Yes. If yes, describe: _____

(X) No.

15. Are on-site piles of waste (other than special or hazardous wastes) managed according to Agency guidelines?

( ) Yes. If yes, describe: _____

( ) No.

16. Are there currently any underground storage tanks present on-site, and will any underground tanks be installed in the future?

( ) Yes. If yes, describe: _____

(X) No.

17(a). Has any situation(s) occurred at this site which resulted in a "release" of any hazardous substance or petroleum?

( ) Yes (continue to next question)
(X) No (stop here)

(b). Have any hazardous substances or petroleum, which were released, come into contact with the ground surface at this site? (Note--do not automatically exclude paved or otherwise covered areas that may still have allowed chemical substances to penetrate into the ground.)

( ) Yes (continue to next question)
( ) No (stop here)

(c). Have any of the following actions/events been associated with the release(s) referred to in question 17(b)?

( ) Hiring of a cleanup contractor to remove obviously contaminated materials including subsoils

( ) Replacement or major repair of damaged facilities

(c).(continued)

( ) Assignment of in-house maintenance staff to remove obviously contaminated materials including subsoils

( ) Designation, by IEPA or the ESDA, of a release as "significant" under the Illinois Chemical Safety Act

( ) Reordering or other replenishment of inventory due to the amount of substance lost

( ) Temporary or more long-term monitoring of groundwater at or near the site

( ) Stop usage of an on-site or nearby water well because of offensive characteristics of the water

( ) Coping with fumes from subsurface storm drains or inside basements

( ) Signs of substances leaching out of the ground along the base of slopes or at other low points on or adjacent to the site

(d). The on-site release(s) may have been of sufficient magnitude to contaminate groundwaters. Summarize the problem.

_____
_____
_____
_____
_____

18. Are there more than 100 gallons of either pesticides or organic solvents, or 10,000 gallons of any hazardous substance, or 30,000 gallons of petroleum present at any time?

( ) Yes. If yes, describe: _____
_____

(X) No.

19. Do any of the regulated entities have groundwater monitoring systems, and have any exceeded compliance requirements?

( ) Yes. If yes, describe: _____
_____

(X) No.

20. After considering all of the above criteria does this site potentially pose a hazard to groundwater?

( ) Yes. If yes, describe: _____
_____
_____
_____
_____

(X) No.

HAZARD REVIEW WORKSHEET

1. Unique I.D. Number 2 0 1 0 4 - 1 0 - P S , Distance and Direction from the Wellhead at the well

2. Nature of Business Pumping station

3. DLPC Permit Number(s) and Description (e.g., RCRA, Generic, Solid Waste, UIC, etc.): None

4. DAPC Permit Number(s) and Description: None

5. DWPC Permit Numbers and Description (e.g., NPDES, Industrial Pre-Treatment, Sewer Plans, etc.): None

6. ERU Incidents and Description: None

7. ERU 313 Reports and Description: None

8. ESDA 302/303 Reports and Description: None

9. ESDA 311/312 Reports and Description: None

10. PWS compliance monitoring conducted and describe the results (e.g., VOC/VOA sample detects, etc.): None

11. ISFM list the underground storage tanks registered, provide the owner name & address:

Owner Name	Address
Paul Marschinke	454 S. 37th Ave. St. Charles, IL 60174

12. Is the site sewered or non-sewered? Sewered

If the site is not sewered, describe: _____

13. Has on-site past or present landfilling, land treating, or surface impoundment of waste, other than landscape waste or construction and demolition debris occured?

( ) Yes. If yes, describe: _____

(x) No.

14. Are there currently any on-site piles of special or hazardous waste?

( ) Yes. If yes, describe: _____

(x) No.

15. Are on-site piles of waste (other than special or hazardous wastes) managed according to Agency guidelines?

( ) Yes. If yes, describe: _____

(x) No.

16. Are there currently any underground storage tanks present on-site, and will any underground tanks be installed in the future?

(x) Yes. If yes, describe: 1 - 5,000 gal. diesel underground storage tank on site. OSFM #2-026855

( ) No.

17(a). Has any situation(s) occurred at this site which resulted in a "release" of any hazardous substance or petroleum?

( ) Yes (continue to next question)
(x) No (stop here)

(b). Have any hazardous substances or petroleum, which were released, come into contact with the ground surface at this site? (Note--do not automatically exclude paved or otherwise covered areas that may still have allowed chemical substances to penetrate into the ground.)

( ) Yes (continue to next question)
( ) No (stop here)

(c). Have any of the following actions/events been associated with the release(s) referred to in question 17(b)?

( ) Hiring of a cleanup contractor to remove obviously contaminated materials including subsoils

( ) Replacement or major repair of damaged facilities

(c).(continued)

( ) Assignment of in-house maintenance staff to remove obviously contaminated materials including subsoils

( ) Designation, by IEPA or the ESDA, of a release as "significant" under the Illinois Chemical Safety Act

( ) Reordering or other replenishment of inventory due to the amount of substance lost

( ) Temporary or more long-term monitoring of groundwater at or near the site

( ) Stop usage of an on-site or nearby water well because of offensive characteristics of the water

( ) Coping with fumes from subsurface storm drains or inside basements

( ) Signs of substances leaching out of the ground along the base of slopes or at other low points on or adjacent to the site

(d). The on-site release(s) may have been of sufficient magnitude to contaminate groundwaters. Summarize the problem.

_____
_____
_____
_____
_____

18. Are there more than 100 gallons of either pesticides or organic solvents, or 10,000 gallons of any hazardous substance, or 30,000 gallons of petroleum present at any time?

( ) Yes. If yes, describe: _____
_____

(x) No.

19. Do any of the regulated entities have groundwater monitoring systems, and have any exceeded compliance requirements?

( ) Yes. If yes, describe: _____
_____

(x) No.

20. After considering all of the above criteria does this site potentially pose a hazard to groundwater?

(x) Yes. If yes, describe: Any underground storage tank in close proximity to a water well is a potential hazard to groundwater.
_____
_____
_____
_____

( ) No.

APPENDIX I

ST. CHARLES

The city of St. Charles (12,945) installed a public water supply in 1907. Five wells (Nos. 3, 4, 5, 6, and 7) are in use. This supply is cross connected with the Howell Co. well and the city of Geneva, and Geneva is also connected to the city of Batavia. In 1950 there were 1600 services, all metered; the estimated average daily pumpage was 580,000 gpd. In 1974 there were 4446 services, all metered; in 1973 the average and maximum daily pumpages were 2,388,211 and 2,800,000 gpd, respectively. The water from Well Nos. 3, 4, and 6 is chlorinated, treated with polyphosphate to keep iron in solution, and aerated. The water from Well No. 7 is aerated for iron removal, filtered, settled, chlorinated, and treated with polyphosphate.

WELL NO. 1, open to the Maquoketa Group and the Galena-Platteville dolomite, was completed in 1907 to a depth of 352 ft. This well was seldom used after 1919 and was abandoned, filled with puddled clay, capped, and sealed with concrete in 1936. The well was located about 5 ft north of the south line of Cedar Ave. and 15 ft west of First Ave. North, approximately 500 ft N and 2100 ft E of the SW corner of Section 27, T40N, R8E. The land surface elevation at the well is approximately 695 ft.

A drillers log of Well No. 1 follows:

Strata	*Thickness (ft)*	*Depth (ft)*
Limestone	80	80
Blue shale	12	92
Limestone	260	352

A 10-in. diameter hole was drilled to a depth of 28 ft and finished 8 in. in diameter from 28 to 352 ft. The well was cased with 8-in. galvanized pipe to a depth of 80 ft.

In August 1914, a production of 120 gpm was reported when pumping with a plunger pump and the nonpumping water level was reported to be 6 to 8 ft from the top of the well.

A mineral analysis of a sample (Lab. No. 28354) collected August 6, 1914, showed the water to have a hardness of 400 mg/l, total dissolved minerals of 548 mg/l, and an iron content of 0.8 mg/l.

WELL NO. 2, open to the Silurian dolomite, the Maquoketa Group, the Galena-Platteville dolomite, and the Glenwood-St. Peter Sandstone, was completed in 1911 to a depth of 850 ft. This well was originally used for emergencies and was seldom operated between 1937 and 1941. The well was abandoned in 1941 and sealed in 1962. The well was located at the southwest corner of Fourth Ave. and Pearl St. about 100 ft north of the Chicago Great Western RR, approximately 1450 ft N and 2300 ft E of the SW corner of Section 27, T40N, R8E. The land surface elevation at the well is approximately 748 ft.

A drillers log of Well No. 2 follows:

Strata	*Thickness (ft)*	*Depth (ft)*
Gravel and clay	42	42
Lime and shale rock	608	650
St. Peter sandstone	200	850

The well was cased with 10-in. pipe to a depth of 42 ft, and the hole was finished 8 in. in diameter to the bottom.

Upon completion, the well reportedly produced 160 gpm with a drawdown of 80 ft from a nonpumping water level of 25 ft below land surface.

This well was seldom used after 1919 until the W. L. Thorne Co., Des Plaines, repaired it in 1931. After repairing, the nonpumping water level was 55 ft below land surface and the well reportedly produced 395 gpm with the drawdown below the 250-ft airline and the pump discharged air. Pumping was reduced to 350 gpm and the drawdown was 156 ft but the pump still discharged air. By 1941 when use of the well was discontinued, the productive capacity had decreased to 100 gpm.

A mineral analysis of a sample (Lab. No. 28355) collected August 6, 1914, showed the water to have a hardness of 287 mg/l, total dissolved minerals of 375 mg/l, and an iron content of 0.4 mg/l.

WELL NO. 3, presently open to the Cambrian-Ordovician aquifer except for the Galena-Platteville dolomite, was constructed in February 1919 to a depth of 2198 ft by F. M. Gray, Jr., Chicago, and rebuilt between December 1953 and May 1955 to a depth of 2195 ft by the J. P. Miller Artesian Well Co., Brookfield. This well was plugged back to 1191.4 ft in May 1971 by the Layne-Western Co., Aurora. The well is located on the east bank of the Fox River about 25 ft south of Cedar St. and 100 ft west of First Ave. near the city hall, approximately 450 ft N and 2000 ft E of the SW corner of Section 27, T40N, R8E. The land surface elevation at the well is approximately 690 ft.

A sample study log of Well No. 3 furnished by the State Geological Survey follows:

Strata	*Thickness (ft)*	*Depth (ft)*
PLEISTOCENE SERIES		
Clay	5	5
SILURIAN SYSTEM		
Dolomite, water bearing	60	65
ORDOVICIAN SYSTEM		
Maquoketa Group, shale and dolomite, in part water bearing	175	240
Galena-Platteville Dolomite Groups	320	560
Ancell Group		
Glenwood-St. Peter Sandstone, water bearing	320	880
CAMBRIAN SYSTEM		
Eminence-Potosi Dolomite	140	1020
Franconia Formation	80	1100

Strata (continued)	Thickness (ft)	Depth (ft)
Ironton-Galesville Sandstone, water bearing	130	1230
Eau Claire Formation, sandstone and shale	410	1640
Mt. Simon Sandstone, water bearing	560	2200

Originally, a 20-in. diameter hole was drilled to a depth of 200 ft, reduced to 15 in. between 200 and 475 ft, reduced to 12 in. between 475 and 489 ft, reduced to 10 in. between 489 and 865 ft, and finished 8 in. in diameter from 865 to 2198 ft. The old casing consisted of 20-in. OD drive pipe from land surface to a depth of 10 ft, 12-in. pipe from land surface to a depth of 243 ft, 10-in. pipe from 243 ft to a depth of 489 ft, and 8-in. liner from 830 ft to a depth of 930 ft. In December 1953 the J. P. Miller Artesian Well Co., removed the old casings and reamed the hole to 19.2 in. in diameter from land surface to a depth of 670 ft, 17 in. in diameter from 670 to 750 ft, 15.2 in. in diameter from 750 to 935 ft, and 10 in. in diameter from 935 to 2195 ft. By April 1955, the well was recased with 16-in. pipe from 0.2 ft above the pump station floor to a depth of 670 ft (cemented in) and 12-in. liner from 820 ft to a depth of 935 ft.

Upon completion in 1919, after a 48-hr idle period, the well reportedly produced 555 gpm with a water level below the 104-ft airline from a nonpumping water level of 14 ft below the pump base.

In 1946, when pumping at 600 gpm, water levels were below a 200-ft airline. At this time, unsuccessful attempts were made to raise the pump so additional column pipe could be added. The well was continued in service until February 1947 when the pump stopped. About 2000 gal of 28 percent HCl were required to free the pump column from the 12-in. casing before the pump could be pulled for repairs.

A production test was conducted on March 9, 1947, by representatives of the city and the State Water Survey. After 1 hr of pumping at rates ranging from 560 to 545 gpm, the drawdown was 47.0 ft from a nonpumping water level of 127.0 ft below the pump base. Pumping was decreased to 495 gpm for 2.5 hr with a final drawdown of 43.5 ft. Thirty-seven min after pumping was stopped, the water level had recovered to 134.0 ft. During this test, Well No. 4 was pumping intermittently.

In September and October 1952, the nonpumping water level was reported to be 148 ft below the pump base.

After rehabilitation was completed in 1955, the nonpumping water level was reported to be 167 ft below land surface.

A production test was conducted by the driller on May 3-4, 1955. After 24.4 hr of pumping at rates ranging from 913 to 1125 gpm, the final drawdown was 143 ft from a nonpumping water level of 177 ft below the pump base. The water level recovered to 200 ft after pumping was stopped 1 hr.

In May 1971, the Layne-Western Co. plugged this well to 931.4 ft.

This well was acidized by the Layne-Western Co. in October 1971 with 2000 gal of treating acid. After acidizing, the well reportedly produced 852 gpm with a drawdown of 228 ft from a nonpumping water level of 376 ft.

The pumping equipment presently installed consists of a 200-hp General Electric motor, a 12-in., 9-stage Layne submersible pump (No. 65298) set at 661 ft, rated at 1000 gpm at about 660 ft head, and has 661.3 ft of 8-in. column pipe. The well is equipped with 661 ft of airline.

The following mineral analysis made by the Illinois Environmental Protection Agency (Lab. No. B43427) is for a water sample from the well collected April 25, 1977, after 1 hr of pumping at 850 gpm.

WELL NO. 3, LABORATORY NO. B43427

		mg/l	me/l			mg/l	me/l
Iron	Fe	0.2		Silica	SiO_2	6.7	
Manganese	Mn	0.00		Fluoride	F	0.8	0.04
Ammonium	NH_4	0.72	0.04	Boron	B	0.3	
Sodium	Na	22	0.96	Nitrate	NO_3	0.0	0.00
Potassium	K	2.1	0.31	Chloride	Cl	11	0.31
Calcium	Ca	61	3.04	Sulfate	SO_4	7	0.15
Magnesium	Mg	24	1.98	Alkalinity (as $CaCO_3$)		297	5.94
Arsenic	As	0.00					
Barium	Ba	1.8		Hardness (as $CaCO_3$)		259	5.18
Copper	Cu	0.00					
Cadmium	Cd	0.00					
Chromium	Cr	0.00		Total dissolved minerals		344	
Lead	Pb	0.00					
Mercury	Hg	0.0002					
Nickel	Ni	0.0					
Selenium	Se	0.00					
Silver	Ag	0.00					
Cyanide	CN	0.00					
Zinc	Zn	0.0		pH (as rec'd)		7.5	

WELL NO. 4, presently open to the Cambrian-Ordovician aquifer, was completed in October 1936 to a depth of 2200 ft by the Varner Well and Pump Co., Dubuque, Iowa. This well was cleaned out in May 1952 to 2190 ft and then in November 1970 the well was plugged at 1647 ft by the Layne-Western Co., Aurora. The well is located on the east bank of the Fox River about 100 ft north of State St. and 210 ft west of Cedar Ave., approximately 950 ft N and 1900 ft E of the SW corner of Section 27, T40N, R8E. The land surface elevation at the well is approximately 686 ft.

A sample study log of Well No. 4 furnished by the State Geological Survey follows:

Strata	Thickness (ft)	Depth (ft)
SILURIAN SYSTEM		
Niagaran-Alexandrian dolomites	65	65
ORDOVICIAN SYSTEM		
Maquoketa Group, shale and dolomite	155	220
Galena-Platteville Dolomite Groups	345	565
Ancell Group		
Glenwood Formation, sandstone and dolomite	65	630
St. Peter Sandstone		
Sandstone	300	930
Conglomerate of sandstone, chert, shale, and dolomite	100	1030
CAMBRIAN SYSTEM		
Franconia Formation, sandstone and dolomite,		

Strata	Thickness (ft)	Depth (ft)
some shale	55	1085
Ironton-Galesville Sandstone		
Sandstone, partly dolomitic	60	1145
Sandstone, incoherent	65	1210
Sandstone, partly dolomitic	45	1255
Eau Claire Formation, shale and dolomite, some sandstone	390	1645
Mt. Simon Sandstone	555	2200

A 24-in. diameter hole was drilled to a depth of 55 ft, reduced to 22 in. between 55 and 400 ft, reduced to 15 in. between 400 and 1046 ft, and finished 12 in. in diameter from 1046 to 2200 ft. The well is cased with 24-in. pipe from 0.7 ft above a concrete floor to a depth of 10 ft, 15.5-in. pipe from land surface to a depth of 400 ft (cemented in from 10 to 400 ft), and a 12-in. liner from 917.5 ft to a depth of 1046 ft.

Upon completion, after the well was shot at depths of 2160, 2100, and 1980 ft, the well reportedly produced 1000 gpm with a drawdown of 145 ft from a nonpumping water level of 90 ft below the top of the casing.

In December 1950, C. W. Varner, Dubuque, Iowa, removed the pump to rework the well and repair the pump. By March 1951, the well had been shot at three depths: 400 lb at 2130 ft, 700 lb at 2070 ft, and 350 lb at 2020 ft. Very little sand was bailed out so additional charges were set off as follows: 400 lb at 2130 ft, 400 lb at 2020 ft, 400 lb at 1940 ft, and 350 lb at 1380 ft.

In March 1952, the production fell off so the well was measured and found to be 1833 ft deep with a nonpumping water level of 151 ft below land surface. In May 1952, the well was cleaned out to a depth of 2190 ft and the pump bowls, shaft, and pump bearings were replaced. On May 31, 1952, the well reportedly produced at a maximum rate of 1146 gpm with a drawdown of 95 ft from a nonpumping water level of 145 ft below the pump base.

The pumping equipment presently installed is a 9-stage Byron Jackson submersible pump (Serial No. 691-C-0182) set at 545 ft, rated at 1000 gpm at about 480 ft head, and powered by a 150-hp 1760 rpm Byron Jackson electric motor.

A mineral analysis made by the Illinois Environmental Protection Agency (Lab. No. A107106) of a sample collected November 27, 1973, after pumping for 2 hr at 670 gpm, showed the water to have a hardness of 234 mg/l, total dissolved minerals of 320 mg/l, and an iron content of 0.15 mg/l.

WELL NO. 5, presently open to the Cambrian-Ordovician aquifer, was completed in December 1947 to a depth of 2226 ft (measured in April 1964 at 1856 ft deep, measured in January 1976 at 1846 ft deep, and backfilled to 1713 ft in January 1976) by the Varner Well and Pump Co., Dubuque, Iowa. The well is located about 80 ft northwest of the intersection of Third and Bowman Sts., approximately 2050 ft S and 1500 ft E of the NW corner of Section 34, T40N, R8E. The land surface elevation at the well is approximately 760 ft

A drillers log of Well No. 5 follows:

Strata	Thickness (ft)	Depth (ft)
Clay and gravel	35	35
Sand and gravel	15	50
Sticky clay	5	55
Clay, gravel, some limerock	11	66
Brown limestone	11	77
White and brown lime	12	89
Grey lime	57	146
Rock and shale	29	175
White rock	20	195
Rock and shale	12	207
Gray shale	88	295
Brown rock	15	310
Grey limerock	319	629
Lime and sandstone	6	635
Sand and sandstone	52	687
Limerock and shale	10	697
White and grey sandstone	298	995
Rock and red shale	10	1005
Red sand and shale	30	1035
Red shale	10	1045
Hard, coarse, red and yellow rock	9	1054
Rock and shale	9	1063
Limarock	15	1078
Red shale and limerock	2	1080
Red shale and rock	19	1099
Green shale	8	1107
Dark grey shale, tough	1	1108
Red sandy shale	12	1120
Red-gray shale and dolomite	39	1159
Red sand and dolomite	44	1203
Red sand	9	1212
Pink sand, dolomite, and silt	42	1254
Buff sand	10	1264
White sand	25	1289
Pink sand, shale streaks	10	1299
White sand	10	1309
White dolomite	15	1324
Dolomite, black streaks, hard	5	1329
Blue-grey dolomite, hard	5	1334
Blue-gray shale, gray hard lime	12	1346
Grey shale	17	1363
Gray-blue shale	26	1389
Blue-gray shale and gray lime	11	1400
Gray shale	34	1434
Grey shale and lime	58	1492
Grey shale and dolomite	10	1502
Blue-gray sandy lime	10	1512
Grey, dolomite, silty	25	1537
Grey dolomite, some shale	42	1579
Blue-gray lime, shale streaks	13	1592
Grey lime	33	1625
Gray lime, shale streaks	10	1635
Gray-blue shale, lime streaks	11	1646
Grey lime	8	1654
Gray lime and dolomite	10	1664
Grey dolomite, shale streaks	86	1750
Fine pink sand; shale	10	1760
Red sand, streaks of clay	48	1808
Red sand	61	1869
Brown sand	11	1880
Red sand	24	1904
Red sand; red shale streaks	203	2107
Brownish sand; decided change in formation, fine and tight	29	2136
Red sand	30	2166
Pink, brown and red sand	60	2226

A 30-in. diameter hole was drilled to a depth of 295 ft, reduced to 24 in. between 295 and 315 ft, reduced to 23.5 in. between 315 and 1232 ft, and finished 20 in. in diameter from 1232 to 2226 ft. The well is cased with 30-in. pipe from 1 ft above the concrete floor to a depth of 68.3 ft and

24-in. pipe from land surface to a depth of 296 ft (cemented in).

Upon completion, the nonpumping water level was reported to be 191 ft below the top of the casing. The well was shot with 4 charges of 400 lb each at depths of 2020, 1855, 1280, and 1235 ft.

A production test was conducted on May 20, 1950, before the well was connected to the system. Much sand was pumped for the first 30 hr with less during the last 9 hr. During pumping at 1200 gpm, the drawdown was 30 ft from a nonpumping water level of 250 ft below the pump base.

Nonpumping water levels were reported to be 240 ft below the pump base in November 1952 and 335 ft in April 1964.

A production test was conducted by the M. P. Schneller & Assoc., Inc., Aurora, on July 3, 1964. After 3 8 hr of pumping at rates ranging from 850 to 960 gpm, the final drawdown was 44 ft from a nonpumping water level of 346 ft below the pump base.

On December 1, 1967, the nonpumping water level was reported to be 378 ft below land surface.

After the well was backfilled to a depth of 1713 ft, a production test was conducted by the Layne-Western Co., Aurora, on March 17, 1976. After 7.5 hr of intermittent pumping at rates ranging from 1089 to 1045 gpm, the final drawdown was 50 ft from a nonpumping water level of 452 ft.

The pumping equipment presently installed consists of a 200-hp Byron Jackson electric motor, a 12-in., 9-stage Byron Jackson submersible pump (No. 328548) set at 650 ft, and has 650 ft of 10-in. column pipe. The well is equipped with 650 ft of airline.

A partial analysis of a sample (Lab. No. 201358) collected March 17, 1976, after pumping for 7 hr at 1045 gpm, showed the water to have a hardness of 276 mg/l, total dissolved minerals of 377 mg/l, and an iron content of 0.7 mg/l.

WELL NO. 6, presently open to the Cambrian-Ordovician aquifer, was completed in October 1955 to a depth of 2249 ft (plugged to 1502 ft in 1974) by L. Cliff Neely, Batavia. The well is located about 60 ft southeast of the intersection of Fourth and Moody Sts., approximately 1900 ft S and 1400 ft E of the NW corner of Section 34, T40N, R8E. The land surface elevation at the well is approximately 766 ft.

A sample study log of Well No. 6 furnished by the State Geological Survey follows:

Strata	*Thickness (ft)*	*Depth (ft)*
Samples not studied	115	115
SILURIAN SYSTEM		
Dolomite, light grayish-buff, fine	5	120
ORDOVICIAN SYSTEM		
Maquoketa Group		
Dolomite, silty, partly argillaceous, light greenish-gray to brownish-gray, very fine	100	220
Shale, silty, dolomitic, grey to brown, weak; little dolomite, as above	72	292
Galena Group		
Dolomite, buff to grayish-buff, fine to medium, some dark gray pyritic specks	198	490
Platteville Group		
Nachusa Formation		
Dolomite, light gray to light brownish-grey, some gray mottling, fine crystalline	55	545
Grand Detour Formation		
Dolomite, light brownish-gray, dark gray mottled, very fine, dense	15	560
Mifflin Formation		
Dolomite, silty, light brownish-gray, very fine to fine, few orange specks	45	605
Pecatonica Dolomite		
Dolomite, light grayish-brown, partly silty, slightly sandy, fine, crystalline	30	635
Ancell Group		
Glenwood Formation		
Sandstone, partly dolomitic, fine to medium, friable	80	715
St. Peter Sandstone		
Sandstone, white, fine to medium, rounded, friable	295	1010
Kress Member		
Shale, silty, sandy, green, weak, charty, pink, yellow, partly oolitic	82	1092
CAMBRIAN SYSTEM		
Franconia Formation		
Sandstone, silty, partly dolomitic, red, light gray at base, friable to firm, glauconitic; shale, red, light blue, weak	62	1154
Ironton-Galesville Sandstone		
Sandstone, slightly dolomitic, pale pinkish-gray, medium, friable, moderately sorted	181	1335
Eau Claire Formation		
Sandstone, dolomite, siltstone, shale interbedded	385	1720
Elmhurst Sandstone Member		
Sandstone, light gray, fine, friable, pyritic, sooty	5	1725
Mt. Simon Sandstone		
Sandstone, white, pale yellow, pink, medium to coarse, friable, poorly sorted, maximum grain size 1.8 mm	515	2240

A 26-in. diameter hole was drilled to a depth of 79 ft, reduced to 24 in. between 79 and 334 ft, reduced to 19 in. between 334 and 1172 ft, and finished 15.2 in. in diameter from 1172 to 2249 ft. The well is cased with 26-in. drive pipe from 0.7 ft above a concrete floor in a well pit to a depth of 79 ft, 20-in. pipe from land surface to a depth of 334 ft (cemented in), and a 16-in. liner from 1021 ft to a depth of 1172 ft. The well was shot with 800 qt of liquid nitro at a depth of 1925 ft.

Upon completion, the nonpumping water level was reported to be 243 ft below land surface.

A production test was conducted on October 17, 1955, by representatives of the driller, the State Water Survey, and Caldwell-Rhoads Co., Consulting Engineers. After 8 hr of pumping at rates of 1120 to 1300 gpm, the final drawdown was 118.0 ft from a nonpumping water level of 240.0 ft below the pump base. Thirty min after pumping was stopped, the water level had recovered to 270.0 ft.

On April 24, 1958, the nonpumping water level was reported to be 272.5 ft below the pump base.

A production test was conducted by the Layne-Western Co., Aurora, on July 9-10, 1974. After 20 hr of pumpin

at a rate of 567 gpm, the drawdown was 282 ft from a nonpumping water level of 350 ft. The Layne-Western Co. plugged the well back to a depth of 1502 ft because of high chloride water from the Mt. Simon Formation. The well was then shot with two 110-grain shots per ft at 1330 to 1225 ft and one 110-grain shot per ft at 1225 to 1150 ft. On July 23, 1974, after 6.5 hr of pumping at rates ranging from 654 to 805 gpm, the drawdown was 113 ft from a nonpumping water level of 400 ft below the top of the pit.

In September 1975, the Layne-Western Co. pulled the pump, cleaned out the well from 1277 to 1502 ft, and rebuilt the bowls which had been severely worn by sand pumping. After this work, production tests were conducted by the Layne-Western Co. On October 8, 1975, after 5 hr of pumping at rates of 805 to 831 gpm, the drawdown was 55 ft from a nonpumping water level of 420 ft. On October 9, 1975, the well produced at rates ranging from 857 to 752 gpm for 7.8 hr with a drawdown of 55 ft from a nonpumping water level of 420 ft. On October 10, 1975, after 4.2 hr of pumping at rates of 851 to 838 gpm, the drawdown was 55 ft from a nonpumping water level of 420 ft.

The pumping equipment presently installed consists of a 150-hp Byron Jackson electric motor, a 10-in., 16-stage Byron Jackson submersible pump (No. 328548) set at 650 ft, rated at 1000 gpm at about 510 ft TDH, and has 650 ft of 8-in. column pipe.

The following mineral analysis (Lab. No. 200023) is for a water sample from the well collected October 9, 1975, after 7.5 hr of pumping at 838 gpm.

WELL NO. 6, LABORATORY NO. 200023

		mg/l	*me/l*			*mg/l*	*me/l*
Iron (total)	Fe	0.1		Silica	SiO_2	7.8	
Manganese	Mn	0.01		Fluoride	F	1.0	
Ammonium	NH_4	0.5	0.03	Boron	B	0.4	
Sodium	Na	31.7	1.38	Nitrate	NO_3	1.1	0.02
Potassium	K	14.5	0.37	Chloride	Cl	29	0.82
Calcium	Ca	64.0	3.19	Sulfate	SO_4	19.3	0.40
Magnesium	Mg	22.5	1.85	Alkalinity (as $CaCO_3$)		292	5.84
Strontium	Sr	2.6	0.06				
				Hardness (as $CaCO_3$)		252	5.04
Barium	Ba	<0.7					
Copper	Cu	0.02		Total dissolved			
Cadmium	Cd	0.00		minerals		367	
Chromium	Cr	0.00					
Lead	Pb	<0.05					
Lithium	Li	0.03		Turbidity		0	
Nickel	Ni	<0.05		Color		0	
Zinc	Zn	0.01		Odor		0	

A 6-in. test well was constructed in July 1962 to a depth of 126 ft by the J. P. Miller Artesian Well Co., Brookfield. The test well was located approximately 600 ft N and 35 ft E of the SW corner of Section 28, T40N, R8E. The test well reportedly produced 150 gpm for 24 hr with a drawdown of 4 ft from a nonpumping water level of 53 ft.

WELL NO. 7, finished in sand and gravel, was completed in November 1963 to a depth of 173 ft by the J. P. Miller Artesian Well Co., Brookfield. This well was not in regular use until 1973 when an iron removal plant was constructed. The well is located on the east side of Randall Road about 1 block north of Main St. (Route 64), approximately 600 ft N and 50 ft E of the SW corner of Section 28, T40N, R8E. The land surface elevation at the well is approximately 765 ft.

A drillers log of Well No. 7 follows:

Strata	*Thickness (ft)*	*Depth (ft)*
Clay, sand and gravel	90	90
Sand	28	118
Sand and gravel	15	133
Gravel and clay	7	140
Sand and gravel	35	175

A 42-in. diameter hole was drilled to a depth of 173 ft. The well is cased with 20-in. steel pipe from 2 ft above land surface to a depth of 118 ft, screened with 20-in. No. 90 slot Johnson stainless steel screen from 118 ft to a depth of 133 ft, cased with 18-in. pipe from 133 ft to a depth of 148 ft, and screened with 20-in. No. 90 slot Johnson screen from 148 ft to a depth of 173 ft. The annulus between the bore hole and casing-screen assembly is filled with impervious fill from 0 to 66 ft and with Silica gravel from 66 to 173 ft.

A production test was conducted by the driller on November 19-20, 1963. After 19.8 hr of pumping at rates of 1005 to 2156 gpm, the drawdown was 10 ft from a nonpumping water level of 59 ft below land surface. Pumping was continued for an additional 4.5 hr at a rate of 1005 gpm with a final drawdown of 3 ft.

The pumping equipment presently installed is a 2-stage Byron Jackson submersible pump set at 100 ft, rated at 2000 gpm at about 105 ft TDH, and powered by a 75-hp 1800 rpm Byron Jackson electric motor (Serial No. 10-1454-4-1RB).

The following mineral analysis made by the Illinois Environmental Protection Agency (Lab. No. C007460) is for a water sample from the well collected March 31, 1975, after 1.5 hr of pumping at 1200 gpm.

WELL NO. 7, LABORATORY NO. C007460

		mg/l	*me/l*			*mg/l*	*me/l*
Iron	Fe	2.1		Silica	SiO_2	18.0	
Manganese	Mn	0.03		Fluoride	F	0.4	0.02
Ammonium	NH_4	0.32	0.02	Boron	B	0.1	
Sodium	Na	6	0.26	Nitrate	NO_3	0.5	0.01
Potassium	K	1.1	0.03	Chloride	Cl	14	0.40
Calcium	Ca	84	4.19	Sulfate	SO_4	99	2.06
Magnesium	Mg	45	3.70	Alkalinity (as $CaCO_3$)		292	5.84
Arsenic	As	0.000		Hardness (as $CaCO_3$)		398	7.96
Barium	Ba	0.2					
Copper	Cu	0.00		Total dissolved			
Cadmium	Cd	0.00		minerals		404	
Chromium	Cr	0.00					
Lead	Pb	0.00					
Mercury	Hg	0.0000		pH (as rec'd)		8.3	
Nickel	Ni	0.0		Radioactivity			
Selenium	Se	0.00		Alpha *pc/l*		0.5	
Silver	Ag	0.00		± deviation		1.4	
Cyanide	CN	0.00		Beta *pc/l*		3.3	
Zinc	Zn	0.00		± deviation		2.0	

Five test holes were constructed in September and October 1977 by the Layne-Western Co., Aurora, to depths ranging from 71 to 280 ft. These holes were located in the northeast and northwest quarters of Section 22, the southeast quarter of Section 25, and the southwest quarter of Section 28, T40N, R8E.

A test well (No. 6-77) was constructed in December 1977 to a depth of 120 ft by the Layne-Western Co., Aurora. It was located approximately 2070 ft S and 720 ft E of the NW corner of Section 22, T40N, R8E. A 15-in. diameter hole was drilled to a depth of 120 ft. The test well was cased with 10-in. pipe from land surface to a depth of 100 ft followed by 20 ft of 8-in. Layne shutter screen. Upon completion, the test well reportedly produced 1012 gpm for 25 hr with a drawdown of 36.0 ft from a nonpumping water level of 4.5 ft below land surface.

ST. CHARLES SKYLINE SEWER & WATER CO. (VALLEY VIEW)

St. Charles Skyline Sewer & Water Co. (Valley View) (est. 500), located within the village of Valley View, installed a public water supply in 1958. Two wells are in use. In 1965 there were 92 services, all metered; the average daily pumpage was 25,000 gpd. In 1974 there were 151 services plus the Illinois Youth Center (Valley View), all metered; the average and maximum daily pumpages were 55,000 and 70,000 gpd, respectively. The water is chlorinated, fluoridated, and treated with polyphosphate to keep iron in solution.

WELL NO. 1, finished in sand and gravel, was completed in August 1958 to a depth of 131 ft by the Layne-Western Co., Aurora. The well is located at the northeast corner of Clyde Parkway and Skyline Drive, approximately 1150 ft N and 1200 ft E of the SW corner ot Section 11, T40N, R8E. The land surface elevation at the well is approximately 787 ft.

A drillers log of Well No. 1 follows:

Strata	*Thickness (ft)*	*Depth (ft)*
Top soil	1	1
Yellow sand	2	3
Clay	9	12
Sandy clay	15	27
Fine sand	3	30
Clay	13	43
Sand and coarse gravel	2	45
Soft clay, sand streaks	22	67
Fine sand	3	70
Coarse sand	19	89
Fine sand and coarse gravel	9	98
Fine sand and coarse gravel with boulders	13	111
Loose fine sand and coarse gravel	22	133
Gravel and shale	6	139

An 18-in. diameter hole was drilled to a depth of 139 ft. The well is cased with 10-in. standard pipe from 2 ft above the pumphouse floor to a depth of 111 ft followed by 20 ft of 10-in. No. 6 (0.080 in.) Layne stainless steel shutter screen. The annulus between the bore hole and casing-screen assembly is filled with clay from 0 to 70 ft and with 5 yards of gravel from 70 ft to the bottom.

Upon completion, the well reportedly produced 250 gpm for 8 hr with a drawdown of 9.0 ft from a nonpumping water level of 100.5 ft below land surface.

On February 21, 1972, the well reportedly produced 250 gpm with a drawdown of 9 ft from a nonpumping water level of 103 ft.

The pumping equipment presently installed consists of a 10-hp 1800 rpm U.S. electric motor (No. 2582069), an 8-in., 4-stage Layne turbine pump (No. 39506) set at 120 ft, rated at 250 gpm at about 110 ft head, and has 120 ft of 5-in. column pipe. The well is equipped with 120 ft of airline.

A mineral analysis made by the Illinois Environmental Protection Agency (Lab. No. C006384) of a sample collected February 19, 1976, after pumping for 45 min at 250 gpm, showed the water to have a hardness of 373 mg/l, total dissolved minerals of 428 mg/l, and an iron content of 1.6 mg/l.

WELL NO. 2, finished in sand and gravel, was completed in June 1969 to a depth of 135 ft by the Layne-Western Co., Aurora. The well is located at the northeast corner of Clyde Parkway and Skyline Drive, approximately 1165 ft N and 1080 ft E of the SW corner of Section 11, T40N, R8E. The land surface elevation at the well is approximately 787 ft.

A drillers log of Well No. 2 follows:

Strata	*Thickness (ft)*	*Depth (ft)*
Top soil (brown)	1	1
Sandy clay	2	3
Brown and gray clay	9	12
Gray clay	15	27
Fine gray sand, trace of gravel	3	30
Gray clay	13	43
Gray sand	2	45
Pinkish clay, soft few sand streaks	36	81
Coarse sand and gravel, some fine grey shale	54	135
Grey shale	2	137

An 18-in. diameter hole was drilled to a depth of 137 ft. The well is cased with 10-in. pipe from 2 ft above the pumphouse floor to a depth of 115 ft followed by 20 ft of 10-in. No. 6 (0.080 in.) Layne shutter screen. The annulus between the bore hole and casing-screen assembly is filled with concrete from 0 to 20 ft, with pit run from 20 to 50 ft, and with 5 yards

SHEET 2 T. 40 N R. 8 E S. 27

COMPANY F. M. Gray HOLE NO.

FARM City Well - Geneva HOLE NO. 3

No.	STRATA	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	MAZOMANIE				
	Sandstone, very fine, pink, very limy, green sand	30		1050	
	Sandstone, very fine, light gray, very limy, little green sand	40		1090	
	Sandstone, coarse gray; gray limy shale; pink and green limy sandstone	10		1100	
	DRESBACH				
	Sandstone, medium, white	50		1150	
	Sandstone, medium, light pink, very limy	10		1160	
	EAU CLAIRE				
	Sandstone, medium white	70		1230	
	Sandstone, medium gray, and pink, limy, breaks in chips; green and red sand	25		1255	
	Sandstone, very fine, bluish gray, limy	5		1260	
	Marl, bluish gray	90		1350	
	Marl, pinkish gray	40		1390	
	Sandstone, fine, gray, limy	70		1460	
	Sandstone, very fine, dark gray, limy, slow drilling	30		1490	
	Marl, bluish gray	150		1640	
	MT. SIMON				
	Sandstone, medium to very fine, gray	30	(20)	1660	
	Sandstone, medium to fine pink	140		1800	
	Sandstone, medium pinkish gray	110		1910	

County KANE

T.—DRILL RECORD

(81083-2m-1-28)

Index No. 0700

27-40N-8E

0-4465

5074

SHEET 3 T. 40 N R. 8 E S. 27

COMPANY F. M. Gray HOLE NO.

FARM City Well - Geneva HOLE NO. 3

No.	STRATA	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Sandstone, medium to very fine, pink	170		2080	
	Sandstone, medium, gray	30		2110	
	Sandstone, fine to very fine, pink	50		2160	
	Sandstone, medium to fine, gray	40		2200	
	See Sample Study and description of insoluble residues by C. E. Needham in file.				

County KANE

T.—DRILL RECORD

(S1083-2m-1-28)

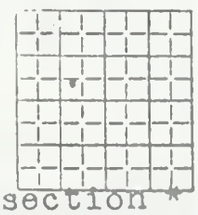
Index No. 0700

27-40N-8E

 ILLINOIS GEOLOGICAL SURVEY, URBANA (71989—10M—2-49)

Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
Clay & gravel			0-35	
Sand & gravel			50	
Sticky clay			55	
Clay, gravel, some lime rock			66	
Brown limestone			77	
White & brown lime			89	
Gray lime			146	
Rock & shale			175	
White rock			195	
Rock & shale			207	
Gray shale			295	
Brown rock			310	
Gray limerock			629	
Lime & sandstone			635	
Sand & sandstone			687	
Lime rock & shale			697	
White & gray sandstone			995	
Rock & red shale			1005	
Red sand & shale			1035	
Red shale			1045	
Hard, coarse, red & yellow rock			1054	
Rock & shale			1063	
Limerock			1078	
Red shale & limerock			1080	
Red shale & rock			1099	
Green shale			1107	
Dark gray shale, tough			1108	
Red sandy shale			1120	
Red-gray shale & dolomite			1159	
Red sand & dolomite			1203	
Red sand			1212	
Pink sand, dolomite & silt			1254	

COMPANY Varner Well Drilling NO.
FARM City of St. Charles NO.
DATE DRILLED December 1947 COUNTY NO. 824
AUTHORITY Varner Well Drilling
ELEVATION 697'±



750'' N. line, 1700' W. line of section 34-40N-8E

Kane

CH4830
-0101

Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
Buff sand			1264	
White sand			1289	
Pink sand, shale streaks			1299	
White sand			1309	
White dolomite			1324	
Dolomite, black streaks, hard			1329	
Blue-gray dolomite, hard			1334	
Blue-gray shale, gray hard lime			1346	
Gray shale			1363	
Gray-blue shale			1389	
Blue-gray shale & gray lime			1400	
Gray shale			1434	
Gray shale & lime			1492	
Gray shale & dolomite			1502	
Blue-gray sandy lime			1512	
Gray dolomite, silty			1537	
Gray dolomite, some shale			1579	
Blue-gray lime, shale streaks			1592	
Gray lime			1625	
Gray lime, shale streaks			1635	
Gray-blue shale, lime streaks			1646	
Gray lime			1654	
Gray lime & dolomite			1664	
Gray dolomite, shale streaks			1750	
Fine pink sand; shale			1760	
Red sand, streaks of clay			1808	
Red sand			1869	
Brown sand			1880	
Red sand			1904	
Red sand; red shale streaks			2107	
Brownish sand; decided change in formation, fine & tight			2136	
Red sand			2166	
Pink, brown & red sand			2226	

* Located by R.E. Bergstrom

Varner Well Drilling - City of St. Charles
Kane 34-40N-8E

ILLINOIS GEOLOGICAL SURVEY, URBANA (71989—10M—2-49)

Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
Static Water Levels:				
Top - 101 None				
101 - 110 65				
110 - 127 70				
127 - 138 71				
138 - 156 70				
156 - 224 71				
224 - 250 75				
250 - 505 71				
505 - 520 72				
520 - 530 71				
530 - 573 73				
573 - 582 74				
582 - 829 73				
829 - 833 74				
833 - 1118 73				
1118 - 1151 75				
1151 - 1157 79				
1157 - 1163 76				
1163 - 1171 77				
1171 - 1185 76				
1185 - 1222 77				
1222 - 1226 82				
1226 - 1279 80				
1279 - 1338 117				
1338 - 1363 179				
1363 - 1389 175				
1389 - 1419 173				
1419 - 1434 153				
1434 - 1449 136				
1449 - 1512 127				
1512 - 1527 142				
1527 - 1537 125				
1537 - 1547 119				
1547 - 1565 120				
1565 - 1571 112				
1571 - 1579 108				
1579 - 1585 106				

Varner Well Drilling - City of St. Charles

Kane 34-40N-8E

Strata		Thickness Feet	Thickness In.	Depth Feet	Depth In.
1585 - 1600	112				
1600 - 1608	104				
1608 - 1616	114				
1616 - 1625	112				
1625 - 1631	106				
1631 - 1646	114				
1646 - 1649	125				
1649 - 1654	123				
1654 - 1661	139				
1661 - 1664	125				
1664 - 1670	129				
1670 - 1674	106				
1674 - 1677	120				
1677 - 1682	110				
1682 - 1688	113				
1688 - 1693	110-112				
1693 - 1698	116				
1698 - 1705	118				
1705 - 1710	114				
1710 - 1715	116				
1715 - 1720	110				
1720 - 1726	155				
1726 - 1730	167				
1730 - 1735	163				
1735 - 1744	169				
1744 - 1749	170				
1749 - 1766	182				
1766 - 1777	175				
1777 - 1792	174				
1792 - 1813	180				
1813 - 1839	170				
1839 - 1847	183				
1847 - 1894	185				
1894 - 1900	180				
1900 - 1910	165				
1910 - 1935	185				
1935 - 1941	183				
1941 - 1951	180				

Varner Well Drilling - City of St. Charles

Kane 34-40N-8E

ILLINOIS GEOLOGICAL SURVEY, URBANA (71989—10M—2-49)

Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
1951 - 2025 183				
2025 - 2040 186				
2040 - 2061 190				
2061 - 2066 188				
2066 - 2072 190				
2072 - 2077 192				
2077 - 2124 186				
2124 - 2130 187				
2130 - 2136 186				
2136 - 2160 190				
2160 - 2166 185				
2166 - 2172 188				
2172 - 2188 187				
2188 - 2200 186				
2200 - 2212 187				
2212 - 2226 190				
#1 shot - 2020 - 400 lbs.				
#2 shot - 1855 - 400 lbs.				
#3 shot - 1280 - 400 lbs.				
#4 shot - 1235 - 400 lbs.				
#5 shot - 1235 - 50 lbs. shot to detonate shot #4				
Casing: Furnish & install 68'4" of 30" x ½" wall pipe with drive shoe from top of hole to 68'4"; furnish and install from surface to 295', 295' of 24", 3/8" wall casing with shoe on bottom, annular space between 24" pipe and 28" hole & 30 " pipe cemented from surface to 295'				

Varner Well Drilling - City of St. Charles
Kane

34-40N-8E

(13153-2m)

MODELS MODERN METHODS

TOWN St. Charles TOWNSHIP 125' N. of E. MAP No. 7
FARM City of " " Main St. on the E. R. 8E
COMPANY bank of Fox R. T. 40N Sec. 27
AUTHORITY
ELEVATION HOLE No. 3
COLLECTOR DATE DRILLED

No.	Co #806 STRATA	THICKNESS FEET	THICKNESS IN.	DEPTH FEET	DEPTH IN.
	Pleistocene and Recent				
	Black soil with pebbles	5		5	
	Silurian				
	Niagaran				
	Limestone, white to bluish or yellowish-gray, dolomitic	65		70	
	Shale, dolomitic, bluish gray	5		75	
	Limestone, dolomitic, white to bluish gray	80		155	
	Ordovician				
	Richmond (or Maquoketa)				
	Shale, dolomitic, light gray	70		225	
	Galena-Trenton				
	Limestone, dolomitic, yellowish gray	105		330	
	Limestone, dolomitic, white, few sand grains	130		460	
	Limestone, dolomitic, bluish gray, small amount of clay	45		505	
	Limestone, like the last but almost white, and increasing amount of sand grains	55		560	
	St. Peter				
	Sand, white rounded grains, without cement	60		620	
	Sand, pale yellowish white, with gray stains				

County Kane
T.—DRILL RECORD.

Index No. 0727
27-40N-8E

089.4830
70100

SHEET -2- T 40N R 8E S 27

COMPANY HOLE No. 3

No.	STRATA	DEPTH Feet	DEPTH In.	THICKNESS Feet	THICKNESS In.
	and slightly cemented with dolomite	10		630	
	Sand, yellowish gray to white, no cement	40		670	
	Sand distinct, yellow tint, dolomitic cement and grains of dolomite	80		750	
	Sand, almost white	10		760	
	Sand, very distinctly yellowish	70		830	
	Sand grains coated with iron, giving pink tint, cement dolomitic. Increasing amount of dolomite, and less sand. Color gradually darker due to more iron present, finally brick red	45		875	
	Lower Magnesian or Prairie du Chien				
	Red dolomitic shales with sand,	55		930	
	Limestone, dolomitic, pinkish white with small amounts of sand and clay	125		1055	
	Shale, gray, with calcareous cement. Sandstone, fine grained with lime cement and a little clay	40		1095	
	Cambrian				
	Potsdam				
	Sand, large colorless				

County Kane
T.—DRILL RECORD.

Index No. 0727
27-40N-8E

SHEET -3- T 40N R 8E S 27

COMPANY HOLE No. 3

No.	STRATA	DEPTH FEET	DEPTH IN.	THICKNESS FEET	THICKNESS IN.
	grains "Water 3' from top of hole" (driller's note) at 1150. Slight amount of dolomitic cement in lower part gives pinkish tone to cuttings	150		1245	
	Sand gray and colorless fine grains, with gray dolomitic cement	15		1260	
	Dolomite, bluish gray with carbonaceous matter and some sand	5		1265	
	Shale, light gray with dolomitic cement and decreasing small amounts of sand	110		1375	

See Sample Study and description of insoluble residues by C. E. Needham in file.

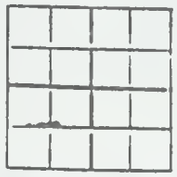
County Kane

T.—DRILL RECORD.

Index No. 0727

27-40N-8E

TOWN St. Charles TOWNSHIP St. Charles Map No. 7
COMPANY C.W. Garner No. R. 8 E
FARM St. Charles City Well No. 4 T. 40 N Sec. 27
AUTHORITY
ELEVATION 690± T.M.
COLLECTOR G.V.C. DATE DRILLED 1936
CONFIDENTIAL



No.	Co. #809 STRATA	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Fill --Rock	8		8	
	Lime, Yellowish	6		14	
	Lime, Brown	8		22	
	Lime, Gray	45		67	
	Shale, red and blue	8		75	
	Lime, gray, soft	36		111	
	Lime, gray, shelly	18		129	
	Lime, gray, shaley	15		144	
	Shale and lime	14		158	
	Shale, brown	21		179	
	Shale	16		195	
	Rock, hard	7		202	
	Shale, brown	17		219	
	Lime, gray	186		405	
	Lime, brown, gray	25		430	
	Lime, brown	30		460	
	Lime, bluish	10		470	
	Lime, brown	80		550	
	Lime, gray	25		575	
	Sandstone (St. Peter)	50		625	
	Limestone and shale	5		630	
	Sandstone	123		753	
	Sandstone, lime spots	18		771	
	Sandstone	137		908	
	Sandstone, Yellow	15		923	
	Sandstone(red in last 5' Oil show 935')	14		937	
	Red Rock (Showing oil)	8		945	
	Red rock and shale	5'		950	
	Lime, gray	20'		970	

County Kane Index No 0727
T.—DRILL RECORD 27-40N-8E

46244—10M—11-35 Illinois Geological Survey, Urbana

0894830
20100

SHEET 2 T. 40 N R. 8 E S. 27

COMPANY C.W. Varner HOLE NO.

FARM St. Charles City Well HOLE NO.

No.	STRATA	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Lime, brown	15		985	
	Lime, gray	15		1000	
	Lime, brown	15		1015	
	Lime, gray	13		1028	
	Lime, brown	12		1040	
	Sandstone	25		1065	
	Sandstone, hard	8		1073	
	Sandstone	52		1125	
	Sandstone, hard	14		1139	
	Sandstone	97		1236	
	Sandstone, hard	11		1247	
	Sandstone	9		1256	
	Sandstone (With shale showing)	9		1265	
	Sandstone and shale	8		1273	
	Shale, gray	14		1287	
	Shale, blue	59		1346	
	Shale, blue and brown	15		1361	
	Shale	17		1378	
	Shale, blue	12		1390	
	Shale	17		1407	
	Shale, blue	18		1425	
	Sandstone	30		1455	
	Limestone, gray	10		1465	
	Lime. gray, hard	8		1473	
	Lim. gray	41		1514	
	Limestone, dark gray	9		1523	
	Lime, gray	78		1601	
	Shale and gray lime	9		1610	
	Limestone, gray	8		1618	
	Shale, limestone	6		1624	
	Limestone, gray	6		1645	
	Sandstone	555		2200	
	See file for Sample Study by N.V. Strantz.				

County Kane

Index No. 0727

T.—DRILL RECORD

(30820—10M—7-34) 2

27-40N-8E

Town St. Charles Township R. 8E

Company C. W. Varner No. T. Sec.

Farm St. Charles City No. 27

Authority Summary Sample Study 40 N

Elevation 690± top. map

Collector

Confidential Date Drilled 1936

SW cor. NE SW

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
Co.#809					
	Studied by L. E. Workman, April 1936 and M. P. Meyer, August 1944.				
	SILURIAN SYSTEM				
	Niagaran and Alexandrian series				
	Dolomite, light	65		65	
	Shale, red and blue	10		75	
	Dolomite, light	10		85	
	Dolomite, cherty, green	25		110	
	ORDOVICIAN SYSTEM				
	Cincinnatian series				
	Maquoketa formation				
	Dolomite, gray, speckled	20		130	
	Dolomite, dark gray; shale, dark brownish gray	10		140	
	Shale, dark brownish gray; some dolomite layers	55		195	
	Dolomite, brownish gray, coarse	5		200	
	Shale, dark brown	20		220	
	Galena-Platteville formations				
	Dolomite, light buff above, darker below	335		565	
	Glenwood formation				
	Sandstone, dolomitic in upper half	60		625	
	Dolomite, sandy, very fine, chalky	5		630	
	Chazyan series				
	St. Peter formation				
	Sandstone, white, very fine to medium	300		930	
	Sandstone, pink, very fine;				

COUNTY Kane 27-40N-8E

Sample Set #1779

(40430—20M) ILLINOIS GEOLOGICAL SURVEY, URBANA (3-43)

SHEET 2 T. 40N R. 8E S. 27

COMPANY C. W. Varner HOLE NO.

FARM St. Charles City HOLE NO.

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	clay, shale, red and white, sandy	5		935	
	Chert conglomerate, red, white, yellow; sandstone, red, fine to coarse, incoherent	15		950	
	Same; partly oolitic and calcareous chert; little shale, red	10		960	
	Conglomerate: chert, red, white, yellow; sandstone, red, fine to coarse, incoherent to compact	15		975	
	Conglomerate: chert; sandstone, fine to coarse, red; quartz, crystalline, hematite; shale, red	20		995	
	Sandstone conglomerate, very fine to coarse; shale, red	10		1005	
	Sandstone, as above; dolomite conglomerate, glauconitic, sandy, red	25		1030	
	CAMBRIAN SYSTEM				
	St. Croixan series				
	Franconia formation				
	Sandstone, white to red, fine to coarse, incoherent; dolomite, sandy, glauconitic, green; shale, red	15		1045	
	Sandstone, very glauconitic, dolomitic, buff, very fine to fine; little shale, sandy, light green at 1053'	18		1063	
	Sandstone, coarse glauconitic, very dolomitic, buff, light green to light gray, medium to coarse; dolomite, glau-				

COUNTY Kane 27-40N-8E

Sample Set #1779

(37281—20M—1,43) ILLINOIS GEOLOGICAL SURVEY, URBANA

SHEET 3 T. 40N R. 8E S. 27

COMPANY C. W. Varner HOLE NO.

FARM St. Charles City HOLE NO.

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	conitic, sandy, light buff	7		1070	
	Sandstone, white, medium to very coarse, incoherent; dolomite lenses, sandy, white to pink, glauconitic	15		1085	
	Galesville formation				
	Sandstone, white, fine to coarse, incoherent; dolomite, very sandy, buff, at top	15		1100	
	Sandstone, as above, few very coarse; dolomite lens, sandy, pink, at base	45		1145	
	Sandstone, white, fine to coarse, incoherent	65		1210	
	Sandstone, white, very fine to medium; dolomite lenses, very sandy, pink (1235'-base)	45		1255	
	Eau Claire formation				
	Sandstone, white, very fine to medium; dolomite, very sandy, light gray to buff; shale, sandy, dolomitic, green, brown	10		1265	
	Shale, light green, light gray, slightly silty, micaceous; dolomite lenses, very sandy, glauconitic, grayish-brown, buff	55		1320	
	Shale, glauconitic, green, pink, silty, very micaceous	25		1345	
	Dolomite, glauconitic, buff to pink, micaceous, silty; sandstone, white, very fine to coarse	5		1350	
	~~Shale, sandy in part, light~~				

COUNTY Kane 27-40N-8E

Sample Set #1779

(37281—20M—1-43) ILLINOIS GEOLOGICAL SURVEY, URBANA

SHEET 4 T. 40N R. 8E- S. 27

COMPANY C. W. Varner HOLE NO.

FARM St. Charles City HOLE NO.

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	gray, green, pink, very micaceous, silty; dolomite lenses as above, also green to brown	75		1425	
	Sandstone, dolomitic streaks, light gray, very fine to medium, incoherent to compact	30		1455	
	Dolomite, glauconitic, very sandy, light gray to buff; shale, sandy, gray, at base	15		1470	
	Limestone, dolomitic, very sandy, light gray to gray to buff	15		1485	
	Same, not glauconitic, gray to brown	15		1500	
	Limestone, very dolomitic, glauconitic, sandy, light gray to buff; sandstone lenses, white, medium to very coarse	10		1510	
	Dolomite, calcareous, glauconitic, silty, gray to buff	40		1560	
	Same, very sandy in part; sandstone, white, fine to medium, at base	10		1570	
	Dolomite, glauconitic, light gray to buff, fine, silty, sandy in part; sandstone lenses, as above	20		1590	
	Dolomite, as above, sandy; little shale, sandy, gray, at 1608	45		1635	
	Sandstone, white, very fine to coarse, slightly "sooty"; little shale, gray	10		1645	

COUNTY Kane 27-40N-8E

Sample Set #1779

(37281—20M—1-43) ILLINOIS GEOLOGICAL SURVEY, URBANA

SHEET 5 T. 40N R. 8E S. 27

COMPANY C. W. Varner HOLE NO.

FARM St. Charles City HOLE NO.

No.	Strata	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Mt. Simon formation				
	Sandstone, white, fine to very coarse, incoherent; shale, sandy, pink, at base	30		1675	
	Sandstone, white, yellow; pink, fine to very coarse; little dolomite, very sandy, pink at 1680'	200		1875	
	Same, mediumto very coarse	35		1910	
	Same, very fine to very coarse	25		1935	
	Sandstone, yellow, white, fine to medium	30		1965	
	Sandstone, pink, very fine to medium; dolomite lenses, sandy, pink (1975-base)	25		1990	
	Sandstone, pink, very fine to very coarse; dolomite, as above	10		2000	
	Sandstone, white, yellow, fine to medium	25		2025	
	Same, pink, very fine to medium	15		2040	
	Sandstone, white, pink, fine to very coarse; little shale, red and dolomite, white, pink, at top	20		2060	
	Sandstone, as above, fine to medium	20		2080	
	Same, fine to very coarse	115		2195	
	"Sandstone"	5		2200	

See file for Sample Study by N.V. Strantz.

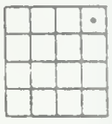
COUNTY Kane 27-40N-8E

Sample Set #1779

(37251—20M—1-43) ILLINOIS GEOLOGICAL SURVEY, URBANA

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner St. Charles, City of Well No. #5-77
Address St. Charles IL
Driller Kauzlarich, Martin License No. 00-0001
11. Permit No. 0 Date
12. Water from 13. County Kane
at depth to ft.
14. Screen: Diam. in.
Length: ft. Slot 11
Sec. 28
Twp. 40 N
Rge. 8 E
Elev.



15. Casing and Liner Pipe 660' S 660' W NE NE

Diam. (in.)	Kind and Weight	From (ft)	To (ft)

16. Size hole below casing: in.
17. Static level 6 ft. below casing top which is 0 ft. above ground level. Pumping level ft. when pumping at gpm for 6 hours.

18. Formations passed through	Thickness	Bottom
brn vy sandy clay	3	3
gvl & bldrs w/s mxd	3	6
f sand-crs gvl bldrs	63	69
brn sdy silty clay	5	74
gry f s-crs gvl bldr	5	79
gry f sand-sm gvl	9	88
gry f s-crs gvl bldr	9	97
gry clayey silt	13	110
gry silty sand	13	123

Kane 12-089-26139-00 28-40N-08E

0894830

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of well

   a. Dug_____. Bored_____. Hole Diam._____in. Depth 145 ft.

   b. Driven_____. Drive Pipe Diam._____in. Depth_____ft.

   c. Drilled_____. Finished in Drift_____ In Rock_____.

   Tubular_____. Gravel Packed_____.

   d. Grout:

(Kind)	From (ft)	To(ft)

2. Distance to Nearest:

   Building_____Ft. Seepage Tile Field_____

   Cess Pool_____ Sewer (non Cast iron)_____

   Privy_____ Sewer (Cast iron)_____

   Septic Tank_____ Barnyard_____

   Leaching Pit_____ Manure Pile_____

3. Well furnishes water for human consumption? Yes_____No_____

4. Date well completed 10/03/77

5. Permanent Pump Installed? Yes_____Date_____No_____

   Capacity_____gpm. Depth of Setting_____Ft.

6. Well Top Sealed? Yes_____No_____Type_____

7. Pitless Adapter Installed? Yes_____No_____

8. Well Disinfected? Yes_____No_____

9. Pump and Equipment Disinfected? Yes___No___

10. Pressure Tank Size_____gal. Type_____

11. Water Sample Submitted? Yes_____No_____

REMARKS: Lay-West drlr M. Kauzlarich, Drlr Log

No Envelope

APR 18 1990

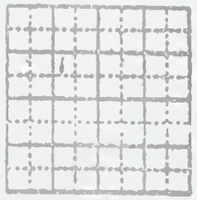
Kane 12-089-26139-00 28-40N-08E

ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
Summary Sample Study by G. H. Emrich	11/56		
Pleistocene Series			
Till, gravely, sandy, pinkish buff, calcareous.	15		15
Till, gravely, sandy, brown, slightly calcareous.	10		25
Till, gravely, sandy, brown, buff, calcareous.	25		50
Till, sandy, slightly gravely, purpl - ish buff to purpl ish brown, cal- careous.	25		75
Gravel, dolomitic, buff; sand, light gray, fine to coarse.	5		80
SILURIAN SYSTEM			
Alexandrian Series			
Dolomite, silty, white to light buff, extra fine to fine, crystalline.	20		100
Dolomite, silty, light buff to light gray, extra fine to very fine, crystalline.	20		120
ORDOVICIAN SYSTEM			
Cincinnatian Series			
Maquoketa Formation			
Dolomite, very silty, gray to buff, very fine to fine, speckled (black); shale, silty, light gray to greenish gray, weak.	35		155
Dolomite, cherty (speckled black), light buff, little light gray, very fine to fine, crystalline.	40		195
Dolomite, very silty, gray to brownish gray, very fine to fine, crystalline;			

COMPANY Cliff Neely
FARM St. Charles
DATE DRILLED 1956
AUTHORITY G. H. Emrich
ELEVATION 750' Est. TM
LOCATION 1960' N line, 1410' W line, NW
COUNTY Kane S.S.#25360

NO. 6
COUNTY NO. 825



34-40N-8E

0894830
20102

Strata	Thickness	Top	Bottom
Shale, dolomitic, grayish buff, weak to tough.	25		220
Shale, dolomitic, silty, buffish gray, brittle to tough, little weak; little dolomite, very silty, buff to gray, very fine to fine, crystalline.	55		275
Dolomite, silty, gray & buff, very fine to fine, crystalline, mottled; shale, dolomitic, silty, gray, weak to tough.	17		292
Mohawkian Series			
Galena Formation			
Dolomite, slightly silty, buff, little grayish buff, very fine to medium, crystalline, slightly speckled (black).	28		320
Dolomite, silty, buff to grayish buff, very fine to fine, little medium, crystalline, slightly porous at base.	60		390
Dolomite, slightly silty to silty, buff to buffish gray to brown, very fine to medium, crystalline, speckled (black).	25		415
Dolomite, light buff to light grayish brown, fine to medium, crystalline,	10		425
Dolomite, silty, argillaceous, buff to grayish buff, very fine to medium, dolomite crystals, speckled (black).	15		440
Dolomite, silty, argillaceous, slightly calcareous, buff to light buffish gray, very fine to fine, slightly speckled (black).	35		475
Dolomite, very argillaceous, buff to light buffish gray, very fine to medium, crystalline.	10		485
Decorah Formation			
Dolomite, very silty, light buff to buff to orange brown, very fine to			

Cliff Neely — St. Charles #6
COUNTY Kane — S.S.#25360 — 34-40N-8E

Strata	Thickness	Top	Bottom
medium, crystalline, slightly speckled (orange, black).	5		490
Platteville Formation			
Dolomite, very silty, buff, gray, very fine to fine, crystalline.	25		515
Dolomite, silty, buff to gray, very fine to fine, crystalline.	45		560
Dolomite, very silty, gray to buff, extra fine to fine, crystalline, slightly mottled.	45		605
Dolomite, silty, buff to light buff, very fine to fine, crystalline.	20		625
Dolomite, silty, slightly sandy, buff to grayish buff, very fine to fine, crystalline.	10		635
Glenwood Formation			
Sandstone, white to light gray, fine, little medium to coarse, rounded, frosted, incoherent; trace of dolomite at top.	10		645
Sandstone, slightly silty, white to light gray, very fine to fine, coarse, rounded, frosted, incoherent, little dolomite.	20		665
Sandstone, white to light gray, very fine to fine, little coarse to medium, rounded, frosted, incoherent.	25		690
Sandstone, white to light gray, fine to medium, little coarse, rounded, frosted, incoherent; dolomite, sandy, light gray, very fine to fine.	10		700
Sandstone, white to light gray, very fine to medium, little coarse, rounded, frosted, incoherent.	50		750
Chazy Series			
St. Peter Formation			
Sandstone, white to light gray, very fine to fine, little medium, rounded,			

Strata	Thickness	Top	Bottom
frosted, incoherent.	25		775
Sandstone, white to light gray, fine to medium, little coarse, rounded, frosted, incoherent.	60		835
Sandstone, trace silt, white to light gray, very fine to fine, little medium, rounded, frosted, incoherent.	35		870
Sandstone, white to light gray, very fine to medium, rounded, frosted, incoherent.	125		995
Sanstone, as above, little pink stain.	15		1010
Shale, sandy, glauconitic, gray to green, weak to brittle.	5		1015
Sandstone, white to light gray, very fine to medium, rounded, frosted, incoherent.	10		1025
Sandstone, cherty, white to pink, very fine to medium, little coarse, rounded, frosted, incoherent.	5		1030
Shale, cherty, reddish brown, to red, weak to brittle.	15		1045
Sandstone, as above.	10		1055
Shale, cherty, slightly silty, reddish brown, weak to brittle.	5		1060
Shale, reddish brown, purple; dolomite, light gray, red, very fine to fine; little chert.	10		1070
Shale, as above; chert.	22		1092
Sandstone, glauconitic, reddish brown to pinkish brown, very fine to medium, incoherent to compact; shale reddish brown to purple, weak to brittle.	18		1110
No sample	10		1120
CAMBRIAN SYSTEM			
ST. Croixan Series			
Franconia Formation			
Sandstone, glauconitic, slightly dolomitic, light gray to gray, very			

Cliff Neely St. Charles #6
COUNTY Kane S.S.#25360 34-40N-8E

Strata	Thickness	Top	Bottom
fine to fine, compact, incoherent; little shale, glauconitic, sandy, green, weak to tough.	25		1145
Dolomite, glauconitic, sandy, light buff to light gray, very fine to fine, crystalline; little shale, glauconitic, green, gray, weak, tough.	5		1150
Sandstone, dolomitic, glauconitic, light buff to buff, very fine to fine, incoherent, compact.	5		1155
Ironton Formation			
Sandstone, slightly dolomitic, buff to pinkish buff, coarse to fine, subrounded, incoherent, compact.	20		1175
Sandstone, slightly dolomitic, light gray to pinkish buff, fine to coarse, incoherent, little compact.	35		1210
Sandstone, white to light gray, very fine to medium, little coarse, subrounded, incoherent.	15		1225
Sandstone, slightly dolomitic, white to light gray, fine to medium, incoherent, little compact.	5		1230
No sample	5		1235
Sandstone, as above.	10		1245
Sandstone, slightly silty, white to light gray, very fine to medium, little coarse, incoherent, little compact.	5		1250
Galesville Formation			
Sandstone, white to light gray, fine to medium little coarse, subrounded, incoherent, slightly silty.	45		1295
Sandstone, white to light gray, very fine to medium, subrounded, incoherent.	35		1330
Eau Claire Formation			
Dolomite, sandy, light buff to pinkish buff, very fine to fine, crystalline,	10		1340

Cliff Neely St. Charles #6

COUNTY Kane S.S.#25360 34-40N-8E

Strata	Thickness	Top	Bottom
Sandstone, dolomitic, gray to light gray, very fine to fine, compact.	15		1355
Sandstone, glauconitic, dolomitic, gray to buff, very fine to fine, compact; shale, glauconitic, gray, brittle, tough.	65		1420
Sandstone, slightly glauconitic and dolomitic, pinkish buff to buff, very fine to fine, compact; little shale, glauconitic, greenish gray to gray, tough.	30		1450
Sandstone, slightly dolomitic, pinkish buff to buff, very fine to fine, compact; little shale, as above.	30		1480
Sandstone, glauconitic, slightly dolomitic, gray to light buff, very fine to medium, compact, incoherent.	25		1505
Sandstone, slightly dolomitic, white to light gray, very fine to fine, incoherent.	35		1540
Dolomite, sandy, slightly glauconitic, light gray to gray, very fine to fine, crystalline, mottled.	25		1565
Dolomite, calcareous, sandy, gray to grayish buff, very fine to fine, crystalline, mottled.	15		1580
Dolomite, very calcareous, slightly sandy, buff to grayish buff, very fine to medium, cyrstalline; little shale, gray, weak to tough.	50		1630
Dolomite, glauconitic, buff to grayish buff, very fine to fine, crystalline; little shale, glauconitic, gray, weak.	30		1660
Sandstone, dolomitic, little buff, very fine to fine, compact; shale at base, sandy, gray to buffish gray, brittle to weak.	20		1689
Dolomite, very sandy, light buff to light buffish gray, very fine to			

Cliff Neely — St. Charles #6

COUNTY Kane — S.S.#25360 — 34-40N-8E

(37329—20M—5-56)

ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
medium, crystalline.	18		1698
Shale, silty, slightly sandy, gray to buffish gray, tough to brittle.	14		1712
Sandstone, dolomitic, light buffish gray to light buff, very fine to fine, compact.	8		1720
Sandstone, light gray, fine to coarse, angular, incoherent, "sooty".	10		1730
Mt. Simon Formation			
Sandstone, light gray, yellow, fine to coarse, few granules, incoherent.	20		1750
Sandstone, light gray, yellow, pink, fine to very coarse, granules, incoherent.	15		1765
Sandstone, pink, yellow, light gray, very fine to coarse, granules, incoherent.	65		1830
Sandstone, light gray, pink, yellow, very fine to coarse, granules, incoherent.	60		1890
Sandstone, red to pink, very fine to coarse, granules, incoherent.	20		1910
Sandstone, slightly silty, red to pink, light gray, very fine to coarse, granules, incoherent.	50		1960
Sandstone, pink, light gray, red at base, very fine to coarse, granules, incoherent.	45		2005
Shale, very silty, red, weak to brittle; sandstone, red, very fine to coarse, granules, incoherent.	20		2025
Sandstone, red to pink, very fine to medium, little coarse, incoherent.	20		2045
Sandstone, pink to little pink, very fine to medium, little coarse, incoherent.	45		2090
Sandstone, pink, yellow, light gray, very fine to medium, little coarse, incoherent.	20		2110

Cliff Neely

COUNTY Kane S.S.#25360 St. Charles #6 34-40N-8E

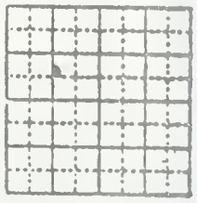
Strata	Thickness	Top	Bottom
Sandstone, slightly silty, light pink to pink, very fine to medium, little coarse, incoherent.	65		2175
Sandstone, pink to light pink to light gray, very fine to coarse, granules, incoherent.	40		2215
Sandstone, slightly silty, light pink to light gray, very fine to coarse, granules, incoherent.	25		2240

Cliff Neely
COUNTY Kane
S.S.#25360
St. Charles#6
34-40N-8E

ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
Summary Sample Study by T. C. Buschbach 8/58.			
Samples not studied	115		115
SILURIAN SYSTEM			
Dolomite, light grayish-buff, fine	5		120
ORDOVICIAN SYSTEM			
Cincinnatian Series			
Maquoketa Group (172')			
Dolomite, silty, partly argillaceous, light greenish-gray to brownish-gray, very fine, some black speckled; shale, silty light greenish-gray, weak	35		155
Dolomite, silty, cherty (black speckled) light buffish-gray to light greenish-gray, very fine	40		195
Dolomite, silty, argillaceous, light gray to gray, black speckled, fine, crystalline; little shale, silty, dolomitic, light gray to brownish-gray, weak	25		220
Shale, silty, dolomitic, gray, weak; little dolomite, as above	20		240
Shale, silty, dolomitic, grayish-brown to brown, weak to brittle;			

COMPANY Cliff Neely
FARM St. Charles City Well NO. 6
DATE DRILLED 1956 COUNTY NO. 825
AUTHORITY T. C. Buschbach
ELEVATION 750'
LOCATION 1960'N line, 1410'W line, NW
COUNTY KANE S.S. #25360



34-40N-8E

Strata	Thickness	Top	Bottom
dolomite, silty, greenish-gray to brownish-gray, very fine	35		275
Shale, silty, dolomitic, brown; dolomite, gray, very fine; depauperate zone (sample out of place?)	5		280
Shale, silty, dolomitic, brownish-gray, weak; dolomite, light gray to brown, mottled, fine to coarse, crystalline, pyritic	12		292
Champlainian Series			
Galena Dolomite Group (198')			
Dolomite, buff to grayish-buff, fine to medium, some dark gray pyritic specks	172		464
Dolomite, light gray to grayish-buff, fine to medium, some black speckled; few red specks at base	26		490
Platteville Group (145')			
Nachusa Formation			
Dolomite, light gray to light brownish-gray, some gray mottling, fine crystalline	25		515
Dolomite, slightly silty, light buff to fine to medium, crystalline; few reddish-brown argillaceous streaks (caved Galena?); dolomite, light gray to gray, mottled, fine, few black specks	30		545
Grand Detour Formation			
Dolomite, light brownish-gray, dark gray mottled, very fine, dense	15		560

Cliff Neely — St. Charles City Well #6
COUNTY KANE — S.S. #25360 — 34-40N-8E

Strata	Thickness	Top	Bottom
Mifflin Formation			
Dolomite, silty, light brownish-gray, very fine to fine, dark gray mottled in part, few orange specks	45		605
Pecatonica Dolomite			
Dolomite, partly silty, light grayish-brown, fine, crystalline	20		625
Dolomite, slightly sandy, light grayish-brown, faint gray mottling, fine	10		635
Ancell Group (457')			
Glenwood Formation (80')			
Loughridge Sandstone Member			
Sandstone, partly dolomitic, white, fine to medium, friable	55		690
Daysville Dolomite Member			
Dolomite, sandy, light gray to light green, very fine; sandstone, white, fine and coarse, friable	10		700
Kingdom Sandstone Member			
Sandstone, light gray, medium, friable, pyritic (slightly sooty)	15		715
St. Peter Sandstone (377')			
Sandstone, white, fine to medium, rounded, friable	25		740
Sandstone, white, fine, friable	35		775
Sandstone, white, medium, friable, rounded	60		835
Sandstone, light yellowish-gray to white, fine, some medium, friable, light pink at base	175		1010

Cliff Neely
COUNTY KANE S.S. #25360

St. Charles City Well #6
34-40N-8E

Strata	Thickness	Top	Bottom
Kress Member (82')			
Shale, silty, sandy, green, weak, glauconitic	5		1015
Sandstone, pink, fine to medium, friable; chert, pink, yellow, partly oolitic	15		1030
Shale, silty red, green, weak; chert, pink	15		1045
Sandstone, white to pink, medium, fraible; little chert, white	10		1055
Shale, silty, red, weak; little chert	5		1060
Chert, dolomite, and quartz, pink; shale, red, some light blue; coarse sand	10		1070
Shale, red, purple, light blue, brittle; chert	22		1092
CAMBRIAN SYSTEM			
Croixan Series			
Franconia Formation (62')			
Sandstone, silty, partly dolomitic, red, light gray at base, friable to firm, glauconitic; shale, red, light blue, weak. Rocks appear weathered beneath unconformity	38		1130
Sandstone, dolomitic, light gray, fine, glauconitic, friable to firm; dolomite, silty, sandy, gray, glauconitic, fine; little shale green, weak	15		1145
Sandstone, very dolomitic, silty, light brownish-gray, fine; dolomite, silty,			

Cliff Neely — St. Charles City Well #6

COUNTY KANE — S.S. #25360 — 34-40N-8E

ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
greenish-gray, fine	9		1154
Ironton Sandstone (141')			
Mooseheart Member			
Sandstone, slightly dolomitic, light pinkish-gray, medium, friable, poorly sorted, maximum grain size 1.3-1.5 mm., few grains firm in dolomite	21		1175
Sandstone, slightly dolomitic, pale pinkish-gray, medium, friable, moderately sorted, maximum grain size 1.2 to 1.5 mm.; few grains firm in dolomite streaks, light pink	35		1210
Marywood Member			
Sandstone, white, medium, poorly sorted, friable	25		1235
Fox Valley Member			
Sandstone, white, medium, poorly sorted maximum grain size 1.2 mm.; dolomite streaks, white, pink	10		1245
Buelter Member			
Sandstone, white, medium, friable, moderately sorted, maximum grain size 1.2 mm.	50		1295
Galesville Sandstone (40')			
Sandstone, white, fine, moderately sorted (very fine tail), friable, maximum grain size .75 mm.	5		1300
Sandstone, white, medium, moderately sorted, friable, maximum grain size 1.0 mm.	25		1325
Sandstone, white, fine, moderately sorted, friable, maximum grain size .75 mm.; at			

Strata	Thickness	Top	Bottom
base-dolomite, sandy, pink	10		1335
Eau Claire Formation (390')			
Proviso Siltstone Member (205')			
Sandstone, dolomitic, light gray, very fine, firm; dolomite, sandy, light yellowish-gray, fine	5		1340
Dolomite, sandy, light yellowish-gray to brownish-gray, fine; sandstone, white, fine; shale, silty, greenish-gray, weak to brittle	15		1355
Sandstone, dolomitic, yellowish-gray to yellowish-orange, very fine; grades to siltstone, dolomitic, firm, glauconitic; shale, silty, greenish-gray, brittle; little dolomite, sandy, brown, very glauconitic	65		1420
Siltstone, dolomitic, sandy, orange, firm, micaceous; dolomite, gray to brown, medium, very glauconitic; little shale, green, pink, brittle	60		1480
Sandstone, dolomitic, light brownish-gray, fine to medium, firm to friable, glauconitic; at top-dolomite, sandy, light gray, medium	60		1540
Lombard Dolomite Member (180')			
Dolomite, sandy, light gray to gray, mottled, fine, crystalline, glauconitic	25		1565
Dolomite, sandy, clacareous, light gray to grayish-brown,			

Cliff Neely — St. Charles City Well #6

COUNTY KANE — S.S. #25360 — 34-40N-8E

ILLINOIS GEOLOGICAL SURVEY, URBANA

Strata	Thickness	Top	Bottom
very fine	15		1580
Dolomite, very calcareous, sandy, silty, light grayish-brown to brownish-gray, very fine to medium; some limestone, dolomitic, sandy, brownish-gray, dense; little shale, greenish-gray to tan, brittle to weak	50		1630
Dolomite, silty, sandy, slightly calcareous, light grayish-brown, fine, coarsely glauconitic; shale, silty, greenish-gray, brittle to weak	25		1655
Dolomite, sandy to very sandy, silty, light buffish-gray, very fine to medium, glauconitic; shale, silty, greenish-gray, brittle to weak	40		1695
Shale, silty, gray, brittle to weak	15		1710
Sandstone, very dolomitic; to dolomite, very sandy, silty, very fine; shale, silty, gray, brittle	10		1720
Elmhurst Sandstone Member			
Sandstone, light gray, fine, friable, pyritic, sooty	5		1725
Mt. Simon Sandstone			
Charter Member (300')			
Sandstone, white, pale yellow, pink, medium to coarse, friable, poorly sorted, maximum grain size 1.8 mm.	40		1765
Sandstone, pale pink, medium, friable, poorly sorted, maximum grain size 1.5 mm.	75		1840

Cliff Neely
COUNTY KANE S.S. #25360

St. Charles City Well #6
34-40N-8E

Strata	Thickness	Top	Bottom
Sandstone, pale yellow, medium, sorting bimodal, very fine pebbles	10		1850
Sandstone, pink, medium, poorly sorted, friable, some very fine pebbles; little red shale 1890-1900'	140		1990
Sandstone, pink, coarse, moderately sorted, friable	15		2005
Shale, silty, red, weak, micaceous; sandstone, red, coarse, fraible	15		2020
Sandstone, pink, fine and very coarse, sorting bimodal, friable, very fine pebbles	5		2025
Gunn Member			
Sandstone, pink, fine to medium, moderately to well sorted, friable	150		2175
Lacey Member			
Sandstone, light yellowish-pink to pink, medium to coarse, poorly sorted, friable, very fine pebbles	65		2240 TD

Cliff Healy St. Charles City Well #6
COUNTY KANE S.S. #25360 24-40N-8E

GEOLOGICAL AND WATER SURVEYS WELL RECORD

Completed April 6, 1978

10. Property owner City of St. Charles Well No. #8
Address St. Charles, IL
Driller R. H. Wehling License No. 102-223
11. Permit No. 71882 Date 3/10/78
12. Water from _____ Formation 13. County Kane
at depth _____ to _____ ft. Sec. 25
14. Screen: Diam. _____ in. Twp. 40N
Length: _____ ft. Slot _____ Rge. 8E
186'N & 168'E of SW of SW of SW Elev. _____
15. Casing and Liner Pipe of SE of Above

Diam. (In.)	Kind and Weight	From (Ft.)	To (Ft.)
26	black steel	0	80
22	" "	0	359
18	" "	868	990

SHOW LOCATION IN SECTION PLAT
186'SL, 168'WL,
SW SE
PERMIT

16. Size Hole below casing: _____ in.
17. Static level 363 ft. below casing top which is _____ ft. above ground level. Pumping level 590 ft. when pumping at 1526 gpm for 36 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
~~XXXXX~~ Drift	70	70
Lime	75	145
Shale no sample due to loss zone. No formation recovery		
Sandstone	250	908
Red Rock, shale, & sand lime	65	973
Lime	113	1086
Lime & sand with red and green shale	72	1158
Lime	15	1173
Sandstone	165	1338
Shale	30	1368

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

Wehling Well Works, Inc.

SIGNED R. H. Wehling DATE 5/25/78

S.S. # 61639
(90 - 1375')

COUNTY No. 24676

KANE

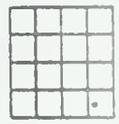
25-40N-8E

089 4830
30104

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner St. Charles, City of Well No. _____
Address St. Charles Il
Driller Carson, James License No. 102-0130
11. Permit No. 70290 Date 12/15/77
12. Water from sand & gravel 13. County Kane
at depth 7 to 91 ft.
14. Screen: Diam. 8 in.
Length: 20 ft. Slot .055

Sec. 15
Twp. 40 N
Rge. 8 E
Elev. 740



15. Casing and Liner Pipe 375' N 1180' W SEc

Diam. (in.)	Kind and Weight	From (ft)	To (ft)
10	STL 41 LB	0	65

16. Size hole below casing: 15.25 in.
17. Static level 21 ft. below casing top which is 0 ft. above ground level. Pumping level 48 ft. when pumping at 1016 gpm for 25 hours.

18. Formations passed through	Thickness	Bottom
SS #62296 (0'-50')	0	0
brn very sandy clay	7	7
brn f to crs sand	24	31
brn f s-crs gvl	55	86
sty s, grvl & bldrs	5	91
soft gray shale	8	99
dk gr ls & shale	11	110

0894830
2C1C5

Kane 12-089-26144-00 15-40N-08E

TOWN St. Charles TOWNSHIP Map No 7

COMPANY F. M. Gray R 8 E

FARM City Well (1919) No. T Sec. 27

AUTHORITY Sample study F. T. No. 3 40

ELEVATION Thwaites N

COLLECTOR DATE DRILLED

CONFIDENTIAL

No.	Co. #806 STRATA	Thickness Feet	Thickness In.	Depth Feet	Depth In.
	Drift				
	Clay, yellowish brown drift	5		5	
	NIAGARA				
	Limestone, magnesian, gray	60		65	
	Shale, blue, limy	10		75	
	Limestone, magnesian, gray to blue; near top flint white	65		140	
	CINCINNATI				
	Shale, blue-gray, limy	100		240	
	GALENA-TRENTON				
	Limestone, magnesian, gray to bluish gray	320		560	
	ST. PETER				
	Sandstone, medium, white	190		750	
	Sandstone, medium, light yellow, limy	10		760	
	Sandstone, medium to fine, gray, limy	100		860	
	Shale, red, sandy, lime at top	20		880	
	LOWER MAGNESIAN				
	Limestone, magnesian, bluish gray, fine sand and gypsum, slow drilling	120		1000	
	MENDOTA?				
	Limestone, magnesian, ~~light pink~~	20		~~1020~~	

County KANE

Index No. 0700

T.—DRILL RECORD

27-40N-8E

(81082-8m-1-28)

C894830

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